Id Emerging Technology Description	Focus Area
106 Food Cooking	Commercial/Institutional Building Performance
283 Carbon-Fluoride Batteries	Commercial/Institutional Building Performance, Consumer Products/Plug Loads, Enabling
245 Certification for Commercial Building Energy Audit and Project Manager	Commercial/Institutional Building Performance, Consumer Products/Plug Loads, Enabling
175 Change Management	Commercial/Institutional Building Performance, Crosscutting and Collaborative Opportuni
235 Educating Installers in New Technologies and Relevant Incentives	Commercial/Institutional Building Performance, Crosscutting and Collaborative Opportuni
386 Thermal Energy Storage with Supercritical Fluids	Commercial/Institutional Building Performance, Crosscutting and Collaborative Opportuni
274 Indoor Plants to Improve Indoor Air Quality	Commercial/Institutional Building Performance, Crosscutting and Collaborative Opportuni
268 Ceramment(TM) ceramic cement-based concrete replacement	Commercial/Institutional Building Performance, Crosscutting and Collaborative Opportuni
314 ASHRAE Advanced Energy Design Guides (AEDG)	Commercial/Institutional Building Performance, Crosscutting and Collaborative Opportuni
353 Building Energy Performance Analytics Software and Services	Commercial/Institutional Building Performance, Enabling Technologies, Energy Manageme
294 Non-Intrusive Load Monitoring	Commercial/Institutional Building Performance, Enabling Technologies, Energy Manageme
230 Meter each building on university campuses	Commercial/Institutional Building Performance, Energy Management
264 Wireless Pneumatic Thermostat	Commercial/Institutional Building Performance, Energy Management, HVAC
338 Advanced Rooftop Unit Controls with Remote Access and Energy Monitoring	Commercial/Institutional Building Performance, Energy Management, HVAC
376 Air Flow Management for Data Centers	Commercial/Institutional Building Performance, Energy Management, HVAC, Information
266 Biobased Window Foam	, , , , , , , , , , , , , , , , , , , ,
	Commercial/Institutional Building Performance, Envelope, Residential Building Performance
233 Reverse Cycle Chiller Application in Multifamily Dwelling	Commercial/Institutional Building Performance, HVAC
246 Advanced Design Rooftop HVAC Unit	Commercial/Institutional Building Performance, HVAC
269 Pressure Independent Flow Control Valves	Commercial/Institutional Building Performance, HVAC
271 Retrofit roof top hvac w/ heat recovery-economizer.	Commercial/Institutional Building Performance, HVAC
276 Ductless Mini-Split Heat Pump for Small Commercial Applications	Commercial/Institutional Building Performance, HVAC
285 Super Energy Saver Heat Pump	Commercial/Institutional Building Performance, HVAC
313 Desiccant dehumidifiers for grocery & cold storage	Commercial/Institutional Building Performance, HVAC
316 Active & Multi-Service Chilled Beams	Commercial/Institutional Building Performance, HVAC
392 Sewage Heat Recovery	Commercial/Institutional Building Performance, HVAC
37 Variable-Speed Pool Pumps	Commercial/Institutional Building Performance, HVAC, Residential Building Performance
216 New Technology Education and Awareness	Commercial/Institutional Building Performance, Industrial/Ag, Lighting
390 LED High-Bay Lighting Fixture with Built-In Daylight Dimming	Commercial/Institutional Building Performance, Industrial/Ag, Lighting
85 Cool Roofs	Commercial/Institutional Building Performance, Residential Building Performance
1 Computer Power Supply ET	Consumer Products/Plug Loads
5 High Power Density in Data Centers	Consumer Products/Plug Loads
27 Intelligent Power Strip	Consumer Products/Plug Loads
39 Advanced Network Power Management	Consumer Products/Plug Loads
84 High-Efficiency Set-Top Boxes	Consumer Products/Plug Loads
94 Appliance Power Monitoring Device	Consumer Products/Plug Loads
98 OLED Screens	Consumer Products/Plug Loads
148 Efficient Office Equipment	Consumer Products/Plug Loads
159 Flash Memory for Hard Drives Computers	Consumer Products/Plug Loads
161 Copier of the Future	Consumer Products/Plug Loads
169 ENERGY STAR Standby in Electronics	Consumer Products/Plug Loads
170 Integrated Processor Chips	Consumer Products/Plug Loads
189 Efficient Power Supplies	Consumer Products/Plug Loads
224 Heat Pump Dryer	Consumer Products/Plug Loads
232 Low Swirl Combustion	Consumer Products/Plug Loads
128 Smart Grid	Consumer Products/Plug Loads
130 Best-in-Class Efficient Equipment	Consumer Products/Plug Loads
176 Youlet Glowing Wall Outlet	Consumer Products/Plug Loads
282 Smart Charger Controller	Consumer Products/Plug Loads
295 Effective Customer Engagement Programs for Home Energy Management	Crosscutting and Collaborative Opportunities, Enabling Technologies, Energy Management
328 Innovative Behavior Change Techniques	Crosscutting and Collaborative Opportunities, Enabling Technologies, Energy Management
408 On-Bill Financing of Energy Efficiency Projects	Crosscutting and Collaborative Opportunities, Enabling Technologies, Energy Management
409 Continuous Energy Improvement (CEI)	Crosscutting and Collaborative Opportunities, Energy Management, Industrial/Ag
21 Ultracapacitors	Enabling Technologies
·	· ·
277 Supercapacitors	Enabling Technologies
383 Real-Time Automatic Interactive Energy Storage	Enabling Technologies
278 Thermoelectric Generators	Enabling Technologies, HVAC, Industrial/Ag

Id Emerging Technology Description	Focus Area
320 Heat recovery Ventilation - Residential	-
,	Enabling Technologies, HVAC, Residential Building Performance
310 High speed Turbo Blower for Wastewater Treatment	Enabling Technologies, Industrial/Ag
60 Flower Pod	Energy Management
72 Utility-to-Building Connection	Energy Management
97 Hotel Room Automation	Energy Management
142 In-Home Displays	Energy Management
164 Server Virtualization	Energy Management
174 Continuous Energy Management	Energy Management
179 Advanced Metering	Energy Management
227 Wireless Building Automation	Energy Management
272 Dashboard Systems and Continuous Monitoring Based Commissioning	Energy Management
280 Smart Circuit Controllers	Energy Management
321 Residential Occupancy Based HVAC Energy Management	Energy Management
331 Meter each space in multi-tenant leased property	Energy Management
333 Home Energy Automation with Interface to the Smart Grid	Energy Management
334 Creative Financing for Emerging Technology Projects	Energy Management
335 EnergyCAP Energy Management Software	Energy Management
336 Master Control for Residential Electrical Appliances	Energy Management
337 Home Energy Wireless Controls	Energy Management
339 Wastewater Treatment Best Practices Trainings	Energy Management
340 National Sharing of Custom Project Lessons Learned	Energy Management
341 Energy Saving Competitions Among Businesses	Energy Management
342 Promote ASHRAE 100	Energy Management
343 Piggyback on Other Programs for Program Outreach	Energy Management
344 Infrared Drive-by Building Envelope Assessments	Energy Management
345 Energy Tracking and Cost Accounting Software	Energy Management
346 Internet-Based Refrigeration System Monitoring System	Energy Management
348 Training on Energy Efficient Product Selection	Energy Management
350 Increased Use of Key Performance Indicators in HVAC System Optimization	Energy Management
351 ASD Trainings	Energy Management
352 Integration of Technologies	Energy Management
354 Techniques Associated with Technologies for success	Energy Management
355 Wireless, Web-Enabled Monitoring	Energy Management
356 Integrated and Turnkey Energy Management and Control Solutions	Energy Management
357 Data Center Energy Management Tools	Energy Management
358 Non-Intrusive Load Monitoring	Energy Management
359 Zero-Based Benchmarking Tools	Energy Management
360 Web-Enabled Thermostats	Energy Management
361 ISO 50,001	Energy Management
362 In-Home Energy Use Displays	Energy Management
362 In-Home Energy Ose Displays 363 Hand-Held Audit Devices	Energy Management Energy Management
364 Programs Supporting Energy Savings Indirectly	Energy Management
365 Energy Use Benchmarking Tool Using Utility Meter Data	Energy Management
366 Regression Analysis Of Utility Bills to Identify Savings Opportunities	Energy Management
367 High-Performance Window Value Purchase Program	Energy Management
368 Prorated Tenant Energy Billing	Energy Management
369 Incentivizing Use of Energy Star's Portfolio Manager	Energy Management
370 Whole-Building Energy Monitoring	Energy Management
371 Integrate industrial energy management systems into existing equipment tracking systems	Energy Management
372 Increased Feedback From Vendors to Building Managers	Energy Management
373 Data Translators For Energy Management System Inputs	Energy Management
374 List of Low/No-Cost Measures	Energy Management
375 Logic Flow Diagrams for Sequence of Operations	Energy Management
377 Enterprise Information Systems	Energy Management
378 Incorporate Energy Management into Continuous Improvement Programs	Energy Management
379 Guidelines for Building Energy Management	Energy Management

Id Emerging Technology Description	Focus Area
380 Shared Savings with Commercial Leasing	Energy Management
387 Innovative Behavior Change Techniques	Energy Management
406 Non-Invasive Energy Meter	Energy Management
243 Passive House	Energy Management, Envelope, Residential Building Performance
243 Peasing House 247 Web-Enabled Thermostat for Small Commercial Application	Energy Management, HVAC
393 Smart Residential Thermostat	Energy Management, HVAC
347 Low-Cost Energy Management and Control System for Small to Medium Commercial Buildings	Energy Management, HVAC, Information Technology, Lighting
349 Vacancy Sensors	Energy Management, Lighting
76 Smart Garage	Envelope
70 Shiah Catalogs 82 Thin Buildings	Envelope
284 Low Cost, Stable Switchable Mirrors: Lithium Ion Mirrors with Improved Stability	Envelope
318 DOE High Performance Windows Volume Purchase Program	Envelope
324 Window Films	Envelope
325 Aerogel Insulation - Piping, Ducts, and Buildings	Envelope
262 Smart Windows	Envelope, Lighting
263 Super Windows	Envelope, Lighting Envelope, Lighting
203 Super Windows 287 Insulated Vinyl Siding	Envelope, Residential Building Performance
4 Advanced Refrigeration Control	HVAC
4 Advanced terrigoration Control 6 Variable Capacity Compressor in Packaged Rooftop Units	HVAC
7 Hybrid DX Packaged RTU, Staged Compressors	HVAC
8 Domestic Water Heating from AC Condensing Unit	HVAC
9 Prevention of Overventilating (During Non Economizer Times)	HVAC
10 Economizer Modification via VFD on Blower	HVAC
10 Economics Modulication via Virgonia Dio Bioweii 11 PAX Principle Flow Technology	HVAC
11 FAX Finisper now Technology 13 Ultraviolet Germicidal Irradiation	HVAC
13 Official Certifician Hadiatoria 14 Passive Options for Heating and Ventilation	HVAC
14 Tessive Options for Teating and Vertication 15 Ductless Heat Pump with OSA Ventilation	HVAC
16 Underfloor Air Distribution	HVAC
17 Low Pressure Duct Design	HVAC
18 Displacement Ventilation: Underfloor, etc.	HVAC
19 CO2 Sensor Control (instead of heat exchangers)	HVAC
20 Heat Recovery Ventilator for Commercial Application	HVAC
23 Direct-Indirect Evaporative Cooler	HVAC
24 Freezer Defrost Controller	HVAC
28 Field Vacuum Precooling (For Produce Storage)	HVAC
29 District System Well Water with WSHP	HVAC
31 HRV Need Low Pressure Considerations in Sizing	HVAC
32 Improving Thermal Distribution Systems for Small Commercial Buildings	HVAC
33 AHU Designed for Low Pressure	HVAC
34 Variable Refrigerant Flow (VRF) w/o Internal/External Heat Recovery	HVAC
40 Commercial Heat Pump Water Heaters	HVAC
41 Potential Worse Performance at Peak Load, Optimized Controls	HVAC
42 Vapor Injection for Scroll Compressors in Air Conditioning [Subcool Refrigerant to Get Below Ambient (Copeland [brand name])]	HVAC
43 Premium Ventilation Package for Rooftop Units	HVAC
44 Hotel/Motel Room PTACs with Key Card or Occupancy Sensors	HVAC
47 Thermal Displacement Ventilation	HVAC
49 Coolerado Cooler 5-Ton Rooftop Unit (RTU)	HVAC
50 Natural-Gas-Fired Heat Pump, Toyota Ecovaire	HVAC
51 Integral-Collector-Storage (ICS) Solar Water Heater	HVAC
52 Reuse of Heat from Server	HVAC
53 Use Lighting Occupancy Sensors for Offices to Control HVAC	HVAC
54 Commercial ECM Motors on Series VAV for Speed Control on Terminal Units	HVAC
55 Set residential and/or commerial HVAC equipment tightness requirements per ASHRAE Std 193 MOT	HVAC
57 UVC Treatment of HVAC Coils	HVAC
59 Hybrid Direct Expansion With Evaporative Cooling	HVAC
62 Air Flow Management in High Density Data Centers	HVAC
5 	

Id Emerging Technology Description	Focus Area
64 eCube Temperature Sensor	HVAC
68 Direct Server Cabinet Cooling	HVAC
70 Solar Pre-heater for Ventilation Air	HVAC
73 Micro-CHP	HVAC
74 Radiant Heating and Cooling with Dedicated Outside Air (OSA) Ventilation System	HVAC
75 Operation and Maintenance Rating System for Commercial Buildings	HVAC
77 Smart Defrost Kits	HVAC
83 Self-Commissioning Using Building Diagnostic Software	HVAC
87 Retrocommissioning Major Equipment such as Chillers	HVAC
88 Residential Water Cooled Condenser	HVAC
95 Verified Air Conditioner Refrigerant Charge and Air Flow	HVAC
101 Motor by Nova Torque 1/3 to 10 HP, Super Efficiency	HVAC
102 Integrated Night Ventilation Cooling	HVAC
105 Premium HVAC Equipment	HVAC
109 Centrifugal Compressors with Magnetic Bearings and Speed Control	HVAC
114 Spray Cooling for CPUs	HVAC
115 Occupancy Sensor HVAC Controls	HVAC
121 Ultra-Sonic Humidification	HVAC
122 Fleet Ventilation	HVAC
123 Air Conditioning for Climates with High or Low Sensible Heat Ratios	HVAC
124 RTU Economizer Embedded Diagnostics with Anomaly Detection	HVAC
126 Variable Refrigerant Flow (VRF) Heat Pumps with Internal/External Heat Recovery	HVAC
127 Airblade Hand Dryer	HVAC
131 Single-Phase Motor Speed Control	HVAC
140 Anti-Fog Film	HVAC
147 Frigitek Evaporator Fan Controller	HVAC
149 Insulated Heat Tape for Freeze Protection for Water Pipes	HVAC
151 Aqua Chill/Cool 3-5 ton Water Cooled DX	HVAC
152 Water Treatment Strategies for Evaporative Cooling Systems	HVAC
154 Ducts in the Conditioned Space	HVAC
155 Demand Controlled Ventilation for Commercial Kitchens	HVAC
156 3-Function Heat Pump: Hot Water, Radiant Floors, and Cooling	HVAC
157 Drain-Water Heat Recovery	HVAC
158 In-Rack Data Center Cooling	HVAC
162 Desiccant Cooling	HVAC
163 Embedded Diagnostics	HVAC
165 Demand Control on Item for Morning Warm-Up	HVAC
166 Demand-Controlled Ventilation	HVAC
172 Heat Pump Water Heater-Residential Integrated Units	HVAC
177 FANWALL Technology	HVAC
178 Aerosol-Based Duct Sealing for Residential and Commercial Buildings	HVAC
181 Heat Pump Maximizer	HVAC
182 Combined Heat and Power	HVAC
184 Low-Lift Cooling Technology Option Set	HVAC
185 Efficient Laboratory Hoods	HVAC
186 HRV for Common Spaces in Multi-Family	HVAC
187 Evaporation-Cooled Ceiling Tiles	HVAC
190 Air to Water and Water to Water Heat Pumps, Turbo Loop	HVAC
191 Low Energy Comfort Using Solar, Night Cooling, etc.	HVAC
192 Thermal Energy Storage (to Reduce Peak Load)	HVAC
193 Premium Efficiency Motor for Furnace PSC vs. ECM Motors Change-outs	HVAC
194 Duct Design with ECM Motors as a Package	HVAC
195 Filter Efficiency Requirements: Set Static Pressure Limit for Flow (Lower Pressure Ventilation)	HVAC
196 Integrated Design Strategies: Duct Sizing, Coils, Number Of Zones, Filter Sizing; a Package of Design Measures; Keep it Simple	HVAC HVAC
197 Heat Home with Dehumidifier 108 Condensing Devers HD Water Heater Water Heater Entracts Heat from Dever for DHW	HVAC
198 Condensing Dryers, HP Water Heater, Water Heater Extracts Heat from Dryer for DHW	TIVAC

1999 Duckes Hees Pursus, Low Temperature, for Fesierient Angolacians 1997 Outpubles Species Outpub	Id Emerging Technology Description	Focus Area
200 Integrated Big Systems IMAC	199 Ductless Heat Pumps, Low Temperature, for Residential Application	HVAC
201 Incomp samply Art notices to Management (1995) and 1997 and 1998 an		
20.2 Surpostino Childre with Sort HW and Eigher Controls	•	
203 LOV Temps Supuly Mr to Relace Volumeits (Flow Rate) MYAC 205 KR LOS Simplified melby Mear and Individed Ollignostics with Anomaly Detection MYAC 205 KR LOS Simplified Frants and Terminal Units MYAC 205 KR LOS Simplified Frants and Terminal Units MYAC 226 Place-Change Dryvall HYAC 227 Place-Change Dryvall HYAC 240 Decidence of Anomary And Systems HYAC 241 Degrands Systems (DAS) Systems HYAC 242 Place-Change Dryvall HYAC 243 Place HYAC Douce HYAC 244 Place HYAC Douce HYAC 245 Right HYAC Douce HYAC 246 Ingert HYAC Douce HYAC 247 Right HYAC Douce HYAC 248 Ingert HYAC Douce Hyac Systems HYAC 249 Ingert HYAC Douce Hyac Systems HYAC 240 Ingert HYAC Douce Hyac Systems HYAC 241 Ingert HYAC Douce Hyac Systems HYAC 242 Ingert HYAC Douce Hyac Systems HYAC 243 Ingert HYAC Douce Hyac Systems HYAC 244 Ingert HYAC Douce Hyac Systems HYAC 245 Ingert HYAC Douce Hyac Systems HYAC		
19.0	· · · · · · · · · · · · · · · · · · ·	
255 EM for Eshaust Finns and Frammal Units		
256 Comme Under ASIBAR Preview HVAC 228 Micro Change Captory HVAC 229 Place Change Gryvall HVAC 219 Flace Change Gryvall HVAC 218 Del Stage Commer Controller and Sensor HVAC 248 Decirated Chrustic Air System (DOAS) for VAV HVAC systems HVAC 240 Single Zinow K, Santa Chrustic Air System (DOAS) for VAV HVAC systems HVAC 251 High Efficiency Gliders Fragorative Coder HVAC 251 High Efficiency Gliders Fragorative Coder HVAC 252 High Systems Gliders Fragorative Coder HVAC 253 High Preformance Indirect Fragorative Coder HVAC 254 Frail DOAS Connomites for Loop Systems HVAC 256 Grand Heaf Eschanger HVAC 257 Frail DOAS Connomites for Loop Systems HVAC 258 Loop Pressure Grow Dyning Systems HVAC 250 Controller Systems HVAC 251 Loop Pressure Grow Dyning Systems HVAC 252 Loop Systems Controller for Loop Systems HVAC 253 Loop Pressure Grow Dyning Systems HVAC 254 Delagated This Has Dyning Controller for Loop Systems HVAC 255 Loop Pressure Grow Dyning Systems	· · · · · · · · · · · · · · · · · · ·	
228 Mrox Chainel Exportor HVAC 231 Signife Strumbler Cartroller and Sensor HVAC 231 Signife Strumbler Cartroller and Sensor HVAC 241 Signife Strumbler Cartroller and Sensor HVAC 248 Signife Strum VAV HVAC 249 Signife Strum VAV HVAC 251 High Efficiency Chiller HVAC 251 High Efficiency Chiller HVAC 251 High Efficiency Chiller HVAC 252 High Performance Indirect Exporative Coder HVAC 253 High Performance Indirect Exporative Coder HVAC 254 Performance Property Fig. Systems HVAC 255 Live Fressore Donp Pring Systems HVAC 257 Live Fressore Donp Pring Systems HVAC 257 Live Fressore Donp Pring Systems HVAC 258 Live Trappers and Frest Article Economizer HVAC 259 Packaged CHP HVAC 250 Document Code Coderate Art Conditions (DAVa) HVAC 250 Document Coderate Art Conditions (DAVa) HVAC 251 Live Trappers and Frest Art Code Coderate Art Conditions (DAVa) HVAC 252 Live Trappers Live Coderate Art Conditions (DAVa) HVAC <		
237 Sinkist faster Connomier Controller and Servor 248 Diagnostic Software for WAXC-Systems WAXC 249 Diagnostic Software for WAXC-Systems WAXC 249 Diagnostic Software for WAXC Systems WAXC 249 Diagnostic Software for WAXC Systems WAXC 249 Single Zone VAX WAXC 249 Diagnostic Software for WAXC Systems WAXC 250 Single Zone VAX WAXC 251 High Tiffering Citiler WAXC 252 High Profrenge Chapter Cooler WAXC 253 High Profrenge Chapter Cooler WAXC 254 Play Profrenge Chapter Cooler WAXC 255 Play Profrenge Chapter Chapter Chapter Cooler WAXC 256 Family Software for WAXC Systems WAXC 257 Koop Pressare Drop Pipule Systems WAXC 257 Koop Pressare Drop Pipule Systems WAXC 250 Cooling Tower Sish Cooling WAXC 250 Cooling Tower Sish Cooling Coordinate of Cooling Co		
231 Soll State Economistre Controller and Sensor HVAC 246 Diagnosis Solverware Controller and Sensor HVAC 246 Diagnosis Solverware Controller Sensor Sensor HVAC 247 Diagnosis Solverware Controller and Sensor HVAC 250 Tiglize HVAL Boxes HVAC 251 High Tillians, Challer Sensorative Cooler HVAC 251 High Tillians, Challer Schappathe Cooler HVAC 251 High Tillians, Challer Schapper HVAC 252 High Tillians, Challer Schapper Schaller Schapper HVAC 253 Hornord Dutz Soilling Sandards HVAC 254 Fartal GSA Schandards HVAC 255 Ground Heat Exchapper HVAC 256 Ground Heat Exchapper HVAC 257 Except channel and Exchapper HVAC	·	
24.1 Dispracts Coftware for NAC Systems HAVC 24.8 Displaced Louise Air System (DOAS) for VAY INAC Systems HAVC 24.9 Single Zone VAX HAVC 25.1 High Efficiency Chiller HAVC 25.1 How Pessure Drop Piping System HAVC 25.1 Low Pessure Drop Piping System HAVC 25.2 Low Temperature Air for Airside Economizer HAVC 25.2 Low Temperature Air for Airside Economizer HAVC 25.2 Low Temperature Air for Airside Economizer, not dry bub or simple enthalpy HAVC 25.1 Dougle System Enthalpy control of economizers, not dry bub or simple enthalpy HAVC 25.2 Louising Pumps Will Airsides Speed Compressors for Residential Application HAVC 25.2 Louising Pumps Will Airsides Speed Compressors for Residential Application HAVC 25.2 Louising Pumps Will Airsides Speed Compressors for Residential Applications HAVC 25.2 Louising Pumps Will	. ,	
248 Desized Outside Air System (DOAS) for VAV HVAC systems HYAC 248 Single zone VAV HYAC 250 Tighter HVAC Boxes HYAC 251 High Efficiency Chiller HYAC 252 High Efficiency Chiller HYAC 253 Hour Heat Exchanger HYAC 255 Found Heat Exchanger HYAC 256 Ground Heat Exchanger HYAC 256 Low Presidency Air Ariside Economizer HYAC 256 Low Presidency Air Ariside Economizer HYAC 256 Cooling Tower Slib Cooling HYAC 250 Cooling Tower Slib Cooling HYAC 250 Cooling Tower Slib Cooling HYAC 250 Cooling Tower Slib Cooling HYAC 251 Cooling Tower Slib Cooling HYAC 252 Designate Findenced Separative Air of Air Air Slib Excention (EVA) HYAC 253 Cooling Tower Slib Cooling HYAC 254 Designate Findenced Separative Air of Air Air Slib Excention (EVA) HYAC 255 Cooling Town Slib Air Air Air Slib Excention (EVA) HYAC		
249 Sing Zone VM HYAC 251 Fighter HVAC Roses HYAC 251 Fighter HVAC Roses HYAC 252 Fighter HVAC Roses HYAC 253 Fighter HVAC Roses HYAC 254 Fight Pafformach Carbonards in Coop Type Systems HYAC 255 Ground Heat Earthrages HYAC 256 Control Heat Earthrages By Standards 256 Low Temperature Are for Asside Economizer HYAC 259 Packaged CHP HYAC 259 Packaged CHP HYAC 260 Cooling Tower Slab Cooling HYAC 261 Descript Financed Exportative Air Conditioner (EVAp) HYAC 262 Descript Financing Controller for Constant Volume Rooftop Units HYAC 275 Energy Enhancing Controller for Constant Volume Rooftop Units HYAC 281 MicroPlacer Hindly control of Hindrich Hord Promain Controller for Constant Volume Rooftop Units HYAC 281 MicroPlacer Hindry Control of Hindrich		
250 Tighter HVAC Boses		
25.1 High Efficiency Chillier HVAC 25.2 High Efficiency Chillier HVAC 25.3 Improved Duct Sealing Sandards HVAC 25.6 Ground Heat Exchanger HVAC 25.6 Ground Heat Exchanger HVAC 25.8 Low Pressure Prop Piping System HVAC 25.8 Low Pressure Prop Piping System HVAC 25.8 Low Pressure Prop Piping System HVAC 25.0 Cooling Tower Sub Cooling HVAC 25.0 Description Franced Evaporative Air Conditioner (DEVap) HVAC 25.0 Description Franced Evaporative Air Conditioner (DEVap) HVAC 27.0 Differential Entituality control of economizers, not dy bulb or simple enthalpy HVAC 27.0 Differential Entituality control of economizers, not dy bulb or simple enthalpy HVAC 28.1 Microhester Microchannel Combustor HVAC 29.1 Microhester Microchannel Combustor HVAC 29.1 Microhester Microchannel Combustor HVAC 20.1 Dicties Mini-Split Heart Pump for Mullifamily Muscing HVAC 20.1 Dicties Mini-Split Heart Pump for Mullifamily Muscing HVAC 20.1 Dicties Mini-Split Heart Pump for Mullifamily Muscing HVAC 21.2 Low Temperature WPF With bin Limita	· · · · · · · · · · · · · · · · · · ·	
23.2 High-Performance Indirect Evaporative Cooler 23.3 Improved Duck Sealing Strandards 4 HVAC 23.4 Partial GSA Economizer for Loop Type Systems 4 HVAC 23.6 Ground Heat Exchanger 4 HVAC 23.5 Ground Heat Exchanger 23.6 Ground Heat Exchanger 23.7 Low Pressure Drop Piping System 23.8 Low Temperature Air for Anide Economizer 23.9 Low Example Cooling 24.0 Cooling Tower Slab Coroling 25.0 Cooling Tower Slab Coroling 25.0 Cooling Tower Slab Coroling 25.0 Cooling Tower Slab Coroling 26.0 Cooling Tower Slab Coroling 27.0 Differential Enthalpy control of economizers, not dry bulb or simple enthalpy 27.0 Differential Enthalpy control of economizers, not dry bulb or simple enthalpy 27.0 Differential Enthalpy control of economizers, not dry bulb or simple enthalpy 28.1 MicroHeater Microchannel Combustor 28.1 MicroHeater Microchannel Combustor 28.2 MicroHeater Microchannel Combustor 28.2 MicroHeater Microchannel Combustor 28.3 MicroHeater Microchannel Combustor 28.4 MicroHeater Microchannel Combustor 28.5 Conculating Pumps with Variable Speed Compressors for Residential Application 38.0 Duckless Mini-Split Heat Pumps with Variable Speed Compressors for Residential Application 38.0 Duckless Mini-Split Heat Pumps for Muthaffully Housing 39.0 Duckless Mini-Split Heat Pump for Muthaffully Housing 30.0 Duckless Mini-Split Heat Pump for Muthaffully Housing 30.0 Duckless Mini-Split Heat Pump for Muthaffully Housing 31.0 Low Temperature VMF with simultaneous heating and cooling for large commercial applications 31.1 Low Temperature VMF with simultaneous heating and cooling for large commercial applications 32.1 Low Temperature VMF with simultaneous heating and cooling for large commercial applications 33.0 Ground Source Variable Refigeratur Fow Systems 34.0 Audit HVAC Equipment 35.0 Audit HVAC Equipment 36.0 Audit HVAC Equipment 37.0 Audit HVAC Equipment 38.0 Audit HVAC Equipment 38.0 Audit HVAC Equipment 39.0 Audit HVAC Equipment 39.1 Audit HVAC Equipment 39.1 Audit HVAC Equipment 39.1 Audit HVAC Equipment 39.1 Audit HVAC Equipment	.	
253 Inproved Duct Sealing Sindards 256 Ground Healt Exchanger 256 Ground Healt Exchanger 257 Low Pressure Drop Pinging System 258 Low Temperature Air for Aircide Economizer 258 Low Temperature Air for Aircide Economizer 259 Packaged CIP 250 Rober Sealt For Drop Pinging System 250 Cooling Tower Slab Cooling 250 Low Stab Cooling 250 Desicant: Feathwards Evaporative Air Conditioner (DEVap) 250 Cooling Tower Slab Cooling 250 Desicant: Feathwards Evaporative Air Conditioner (DEVap) 251 Desicant: Feathwards Evaporative Air Conditioner (DEVap) 252 Directive Internative Stab Cooling 253 Desicant: Feathwards Evaporative Air Conditioner (DEVap) 254 Desicant: Feathwards Evaporative Air Conditioner (DEVap) 255 Energy Farbanesed Evaporative Air Conditioner (DEVap) 256 Desicant: Feathwards Conditioner Constant Volume Robotop Units 257 Energy Farbanesed Evaporative Air Constant Volume Robotop Units 258 Low Constant Volume Robotop Units 259 Energy Farbanesed Evaporative Air Constant Volume Robotop Units 250 Energy Farbanesed Evaporative Air Constant Volume Robotop Units 250 Low Constant Volume Robotop Units 251 Low Temperature VIP Without On Manufactured Homes 252 Low Temperature VIP Without Grot Manufactured Homes 253 Low Temperature VIP Without Grot Manufactured Homes 254 Coulted Climate 2: Efficient Healt Plump for Portable Classrooms 255 Coulted Climate 2: Efficient Healt Plump for Portable Classrooms 256 Coulted Climate 2: Efficient Healt Plump for Portable Classrooms 257 Coulted Climate 2: Efficient Healt Plump for Portable Classrooms 257 Coulted Climate 2: Efficient Motors 258 Nanotechnomiers for Data Centers 259 Healt Plump for Portable Classrooms 250 Energy Efficient Motors 250 Energy Efficient Motors 250 Energy Efficient Motors 251 Low Temperature VIP Without Climation Fort Robotop Climation Air 251 Low Temperature VIP Without Climation Fort Robotop Climation Air 252 Climate Climate Motors 253 Farage Conference of Robotop Conference along Climation Air 254 Conference VIP Climation Climation Climation Air 255 Conferen		
254 Partial CSA Economizer for Loop Type Systems HYAC		
256 Corund Heart Exchanger 257 Low Pressure Dor Pipining System 258 Low Temperature Air for Airsidie Economizer 259 Packaged CHP 260 Cooling Tower Slab Cooling 261 Desicant—Financed Exappartave Air Conditioner (DEVap) 270 Differential Enthalpy control of economizers, not dry bulb or simple enthalpy 270 Differential Enthalpy control of economizers, not dry bulb or simple enthalpy 270 Differential Enthalpy control of economizers, not dry bulb or simple enthalpy 270 Differential Enthalpy control of economizers, not dry bulb or simple enthalpy 271 Differential Enthalpy control of economizers, not dry bulb or simple enthalpy 272 Energy Enhancing Controller for Constant Volume Rooftop Units 273 Energy Enhancing Controller for Constant Volume Rooftop Units 274 Enthalpy Control of Exchange Compressors for Residential Application 275 Energy Enhancing Controller for Nutrillarially Housing 276 United Simple Figure Pump with Variable Speed et Compressors for Residential Application 277 United Simple Pump for Munificative Housing 278 Low Temperature VRF with simultaneous heating and cooling for large commercial applications 279 United Climare 2 Efficient Heat Pump for Portable Classroom 270 United Simple 2 Efficient Heat Pump for Portable Classroom 270 United Climare 2 Efficient Heat Pump for Portable Classroom 271 United Simple 2 Control System 270 United Climare 2 Efficient Heat Pump for Portable Classroom 271 Variable Speed Compressor Single Zone Ducted Heat Pump 272 House Pump For Portable Classroom 273 High Temperature VRF with simple Single Zone Ducted Heat Pump 273 House Pump For Portable Classroom 274 United Climare 2 Lifficient Heat Ductor System 275 House Pump For Portable Classroom 276 Have Compressor Single Zone Ducted Heat Pump 277 Have Compressor Single Zone Ducted Heat Pump 278 Heat Pump Butter Heaters United Single Zone Ducted Heat Pump 279 Heat Pump Butter Heaters United Single Post Commercial and Industrial Applications 279 Have Tump Butter Heaters United Single Post Commercial Applications 279 Have Tump B	·	
257 Low Pressure Drop Piping System HVAC	,	
258 Low Temperature Air for Airside Economizer HVAC 259 Packaged CHP HVAC 260 Cooling Tower Slab Cooling HVAC 270 Differential Enthalpy control of economizers, not dry bulb or simple enthalpy HVAC 270 Differential Enthalpy control of economizers, not dry bulb or simple enthalpy HVAC 275 Energy Enflancing Controller for Constant Volume Roftop Units HVAC 281 MicroHeater Microchannel Combustor HVAC 292 UcroLading Pumps with Variable Speed Permanent Magnet Motors HVAC 300 Ductless Mini-Spilk Heat Pumps with Variable Speed Compressors for Residential Application HVAC 310 Ductless Mini-Spilk Heat Pump for Munifiamily Housing HVAC 320 Ductless Mini-Spilk Heat Pump for Munifiamily Housing HVAC 321 Low Temperature VRF without simultaneous heating and cooling for large commercial applications HVAC 321 Low Temperature VRF without simultaneous heating and cooling for large commercial applications HVAC 322 Quiet Climate 2. Efficient Hotors HVAC 323 Ground Source Variable Refrigerant flow Systems HVAC 324 Value Desporter Cooler to Pre-Cool Ventilation Air HVAC 325 Modular HVAC Equipment HVAC 326 Noutina HVAC Equipment<	<u>s</u>	
259 Packaged CHP	, , , ,	
260 Cooling Tower Slab Cooling 270 Differential Enthalpy Control of economizers, not dry bulb or simple enthalpy 270 Differential Enthalpy Control of economizers, not dry bulb or simple enthalpy 272 Energy Enhancing Controller for Constant Volume Rooftop Units 273 Livrulating Pumps with Variable Speed Permanent Magnet Motors 274 Circulating Pumps with Variable Speed Permanent Magnet Motors 275 Livrulating Pumps with Variable Speed Permanent Magnet Motors 276 Livrulating Pumps with Variable Speed Compressors for Residential Application 277 Livrulating Pumps with Variable Speed Compressors for Residential Application 278 Livrulating Pumps with Variable Speed Compressors for Residential Application 279 Livrulating Pumps with Variable Speed Compressors for Residential Application 270 Livrulating Pumps with Variable Speed Compressors for Residential Application 270 Livrulating Pumps with Variable Speed Compressors for Residential Application 271 Livrulating Pumps with Variable Speed Compressors for Residential Application 272 Livrulating Pumps with Variable Value Speed	·	
26.1 Desicant-Enhanced Evaporative Air Conditioner (DEVap) HVAC 27.0 Differential Enhalpy control of economizers, not dry bulb or simple enhalpy HVAC 27.5 Energy Enhancing Controller for Constant Volume Rootop Units HVAC 28.1 Microrleater Microchannel Combustor HVAC 29.1 Circulating Pumps with Variable Speed Permanent Magnet Motors HVAC 30.1 Ductless Mini-Split Heat Pump for Multifamily Housing HVAC 30.1 Ductless Mini-Split Heat Pump for Multifamily Housing HVAC 31.1 Low Temperature VRF with simultaneous heating and cooling for large commercial applications HVAC 31.1 Low Temperature VRF with simultaneous heating and cooling for large commercial HVAC 31.2 Low Temperature VRF with simultaneous heating and cooling for large commercial HVAC 31.2 Low Temperature VRF with simultaneous heating and cooling for large commercial HVAC 31.2 Low Temperature VRF with simultaneous heating and cooling for large commercial HVAC 31.2 Low Temperature VRF with simultaneous heating and cooling for large commercial HVAC 31.2 Low Temperature VRF with simultaneous heating and cooling for large commercial applications HVAC 31.2 Low Temperature VRF with simultaneous heating and cooling for large commercial applications HVAC 31.2 Low Temperature VRF with the Pump for Portable Classrooms	*	
PVAC		
275 Energy Enhancing Controller for Constant Volume Rooftop Units 281 MicroPeter Microchannel Combustor 291 Circulating Pumps with Variable Speed Permanent Magnet Motors 300 Ductiess Mini-Spilt Heat Pumps with Variable Speed Compressors for Residential Application 301 Ductiess Mini-Spilt Heat Pump for Multfamily Housing 302 Ductiess Mini-Spilt Heat Pump for Multfamily Housing 303 Ductiess Mini-Spilt Heat Pump for Multfamily Housing 304 Ductiess Mini-Spilt Heat Pump for Multfamily Housing 305 Ductiess Mini-Spilt Heat Pump for Multfamily Housing 306 Ductiess Mini-Spilt Heat Pump for Multfamily Housing 307 Ductiess Mini-Spilt Heat Pump for Multfamily Housing 308 Ductiess Mini-Spilt Heat Pump for Multfamily Housing 319 DualCool Capparative Coole on the Spilt Amount of HVAC 310 Compensative VRF without simultaneous heating and cooling for large commercial applications 310 Low Temperature VRF without simultaneous heating and cooling for large commercial 310 DualCool Capparative Coole to Pre-Cool Vernitation Air 311 Dual Temperature VRF without simultaneous heating and cooling for large commercial 312 Dual Temperature VRF without simultaneous heating and cooling for large commercial 313 DualCool Capparative Coole Propersoor Spilt Provided Capparative Coole Prove Provided Capparative Coole Prove Provided Capparative Coole Provided Capparative Coole Provided Capparative Coole Provided Capparative Coole Provided Capparative Capparat	·	
281 Microhanel Combustor HVAC		
P31 Circulating Pumps with Variable Speed Compressors for Residential Application HVAC	* / *	
300 Ductless Mini-Split Heat Pump for Multifamily Housing HVAC 301 Ductless Mini-Split Heat Pump for Multifamily Housing HVAC 302 Ductless Mini-Split Heat Pump for Manufactured Homes HVAC 311 Low Temperature VRF with simultaneous heating and cooling for large commercial applications HVAC 312 Low Temperature VRF with simultaneous heating and cooling for large commercial HVAC 317 DualCool Evaporative Cooler to Pre-Cool Ventilation Air HVAC 323 Ground Source Variable Refrigerant Flow Systems HVAC 327 Quiet Climate 2: Efficient Heat Pump for Portable Classrooms HVAC 328 Modular HVAC Equipment HVAC 385 Montechnology Membrane-Based Dehumidifier HVAC 380 Energy Efficient Motors HVAC, Industrial/Ag 231 Fear Pump Water Heaters Using CO2 for Commercial and Industrial Applications HVAC, Industrial/Ag 119 Air-Side Economizers for Data Centers HVAC, Industrial/Ag 120 Smart Thermostat HVAC, Misstrial/Ag 2 Heat-Of-Compression Desiccant Dryers (Replacing Existing Desiccant Compressed Air Dryers that Use Electric Resistance Heat) Industrial/Ag 48 Wireless Sensors Industrial/Ag 69 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers Industrial/Ag 90 Air Compressors wi		
301 Ductless Mini-Split Heat Pump for MultIfamily Housing 302 Ductless Mini-Split Heat Pump for Manufactured Homes 311 Low Temperature VRF with simultaneous heating and cooling for large commercial applications 312 Low Temperature VRF without simultaneous heating and cooling for large commercial 313 Foul-Cool Evaporative Cooler to Pre-Cool Ventilation Air 314 Foul-Cool Evaporative Cooler to Pre-Cool Ventilation Air 315 Foul-Cool Evaporative Cooler to Pre-Cool Ventilation Air 316 Foul-Cool Evaporative Cooler to Pre-Cool Ventilation Air 317 Foul-Cool Evaporative Cooler to Pre-Cool Ventilation Air 318 Foul-Cooler Speed Compressor Single-Zone Ducted Heat Pump 319 Foul-Cooler Speed Compressor Single-Zone Ducted Heat Pump 310 Foul-Cooler Speed Compressor Single-Zone Ducted Heat Pump 311 Foul-Cooler Speed Compressor Single-Zone Ducted Heat Pump 312 Variable-Speed Compressor Single-Zone Ducted Heat Pump 313 Foul-Cooler Speed Compressor Single-Zone Ducted Heat Pump 314 Foul-Cooler Speed Compressor Single-Zone Ducted Heat Pump 315 Foundation Foundati		
302 Ductless Mini-Split Heat Pump for Manufactured Homes 311 Low Temperature VRF with simultaneous heating and cooling for large commercial applications 312 Low Temperature VRF with but simultaneous heating and cooling for large commercial 313 Low Temperature VRF with but simultaneous heating and cooling for large commercial 314 DualCool Evaporative Cooler to Pre-Cool Ventilation Air 315 DualCool Evaporative Cooler to Pre-Cool Ventilation Air 316 Outs Cooler to Pre-Cool Ventilation Air 317 Quiet Climate 2: Efficient Heat Pump for Portable Classrooms 318 Modular HVAC Equipment 319 Auriable Speed Compressor Single-Zone Ducted Heat Pump 320 Modular HVAC Equipment 331 Sonotechalogy Membrane-Based Dehumidifier 332 Modular HVAC Equipment 333 Founds Place Pla		
311 Low Temperature VRF with simultaneous heating and cooling for large commercial applications 312 Low Temperature VRF without simultaneous heating and cooling for large commercial 313 Low Temperature VRF without simultaneous heating and cooling for large commercial 314 Court Cool Evaporative Cooler to Pre-Cool Ventilation Air 325 Ground Source Variable Refrigerant Flow Systems 326 Ground Source Variable Refrigerant Flow Systems 327 Quiet Climate 2: Efficient Heat Pump Portable Classrooms 327 Quiet Climate 2: Efficient Heat Pump Portable Classrooms 328 Modular HVAC Equipment 41 HVAC 329 Avaiable-Speed Compressor Single-Zone Ducted Heat Pump 320 Energy Efficient Motors 321 Audition Bust Collection System 322 Modular HVAC Equipment 323 Energy Efficient Motors 324 Heat Pump Water Heaters Using CO2 for Commercial and Industrial Applications 325 Heat Pump Water Heaters Using CO2 for Commercial and Industrial Applications 326 May 119 Air-Side Economizers for Data Centers 327 Heat Pump Water Heaters Using For Peak Demand Management 328 High Temperature Water and Space Heating for Peak Demand Management 329 High Temperature Water and Space Heating for Peak Demand Management 329 Litrananocrystalline Diamond (UNCD*) Mechanical Seals 320 Litrananocrystalline Diamond (UNCD*) Mechanical Seals 321 Ultrananocrystalline Diamond (UNCD*) Mechanical Seals 322 Ultrananocrystalline Diamond (UNCD*) Mechanical Seals 323 Midustrial/Ag 324 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 325 Industrial/Ag 326 Industrial/Ag 327 New Variable Speed Drives 328 Industrial/Ag 339 Industrial/Ag 340 Industrial/Ag 350 Industrial/Ag 361 Industrial/Ag 371 Industrial/Ag 371 Industrial/Ag 372 Industrial/Ag 373 Industrial Pumps & Fans 374 Industrial/Ag 375 Industrial/Ag 376 Industrial/Ag 377 Industrial/Ag 377 Industrial/Ag 377 Industrial/Ag 377 Industrial/Ag 378 Industrial Pumps & Fans 379 Industrial/Ag 370 Industrial/Ag 370 Industrial/Ag 370 Industrial/Ag 371 Industrial/Ag 371 Industrial/Ag 371 Industrial/Ag 371 Industrial/Ag 371	, , , ,	
312 Low Temperature VRF without simultaneous heating and cooling for large commercial 317 DualCool Evaporative Cooler to Pre-Cool Verhildion Air 328 Ground Source Variable Refrigerant Flow Systems 329 Quiet Climate 2: Efficient Heat Pump for Portable Classrooms 320 Variable-Speed Compressor Single-Zone Ducted Heat Pump 321 Modular HVAC Equipment 322 Modular HVAC Equipment 323 Modular HVAC Equipment 324 Modular HVAC Equipment 325 Modular HVAC Equipment 326 Modular HVAC Equipment 327 Nanotechnology Membrane-Based Dehumidifier 328 Modular HVAC Equipment 329 Heat Pump Water Heaters Using CO2 for Commercial and Industrial Applications 329 Heat Pump Water Heaters Using CO2 for Commercial and Industrial Applications 320 Modular HVAC Equipment 320 Energy Efficient Motors 321 Heat Pump Water Heaters Using CO2 for Commercial and Industrial Applications 322 High Temperature Water and Space Heating for Peak Demand Management 323 High Temperature Water and Space Heating for Peak Demand Management 324 Heat-Of-Compression Desiccant Oryers (Replacing Existing Desiccant Compressed Air Dryers that Use Electric Resistance Heat) 325 High Temperature Water and Space Heating for Peak Demand Management 326 Heat-Of-Compression Desiccant Oryers (Replacing Existing Desiccant Compressed Air Dryers that Use Electric Resistance Heat) 327 Heat-Of-Compression Desiccant Oryers (Replacing Existing Desiccant Compressed Air Dryers with Refrigerated Dryers 33 Industrial/Ag 34 Mirrless Sensors 34 Morrless Sensors 35 Industrial/Ag 36 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 36 Industrial/Ag 37 Nover Apriable Speed Drives 38 Industrial/Ag 39 Industrial/Ag 30 Industrial/Ag 31 Industrial/Ag 3	·	
317 DualCool Evaporative Cooler to Pre-Cool Ventilation Air 323 Ground Source Variable Refrigerant Flow Systems 324 Quiet Climate 2: Efficient Heat Pump for Portable Classrooms 325 Variable-Speed Compressor Single-Zone Ducted Heat Pump 326 Modular HVAC Equipment 327 Quiet Climate 2: Efficient Heat Pump for Portable Classrooms 328 Wodular HVAC Equipment 329 Modular HVAC Equipment 330 Kanotechnology Membrane-Based Dehumidifier 4 HVAC 4 Variable Volume Dust Collection System 4 HVAC 4 Variable Volume Dust Collection System 4 HVAC, Industrial/Ag 4 HVAC, Residential Building Performance 4 HVAC, Residential Building Performance 4 HVAC, Water Heating 5 Heat-Of-Compression Desiccant Dryers (Replacing Existing Desiccant Compressed Air Dryers that Use Electric Resistance Heat) 5 Ultrananocrystalline Diamond (UNCD*) Mechanical Seals 5 Ultrananocrystalline Diamond (UNCD*) Mechanical Seals 6 Electrodialysis for Wine Industry 6 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 6 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 7 New Variable Speed Drives 8 Industrial/Ag 9 Industrial/Ag		
323 Ground Source Variable Refrigerant Flow Systems 327 Quiet Climate 2: Efficient Heat Pump for Portable Classrooms 328 Variable-Speed Compressor Single-Zone Ducted Heat Pump 329 Wodular HVAC Equipment 320 Wariable-Speed Compressor Single-Zone Ducted Heat Pump 320 Knatce Climate 2: Efficient Heat Pump 321 Modular HVAC Equipment 322 Variable Volume Dust Collection System 323 Nanotechnology Membrane-Based Dehumidifier 323 Usariable Volume Dust Collection System 324 Wariable Volume Dust Collection System 325 Nanotechnology Membrane-Based Dehumidifier 326 Energy Efficient Motors 327 Harriable Volume Dust Collection System 328 Heat Pump Water Heaters Using CO2 for Commercial and Industrial Applications 329 Hay Fraid Heaters Using CO2 for Commercial and Industrial Applications 320 Hay Fraid Heaters Using CO2 for Commercial and Industrial Applications 321 Hay Fraid Heaters Using CO2 for Commercial and Industrial Applications 322 High Temperature Water and Space Heating for Peak Demand Management 323 High Temperature Water and Space Heating for Peak Demand Management 324 Heat-Of-Compression Desiccant Dryers (Replacing Existing Desiccant Compressed Air Dryers that Use Electric Resistance Heat) 325 High Temperature Water and Space Heating for Peak Demand Management 326 Ultrananocrystalline Diamond (UNCD*) Mechanical Seals 327 High Temperature Water and Space Heating for Peak Demand Management 328 Wireless Sensors 329 Industrial/Ag 330 High Temperature Water and Space Heating for Peak Demand Management 339 High Temperature Water and Space Heating for Peak Demand Management 340 Wireless Sensors 350 Industrial/Ag 361 Heat-Of-Compressed Air Dryers with Refrigerated Dryers 362 Industrial/Ag 370 Air Compressors with Variable Speed Drives 370 Industrial/Ag 370 System Optimization 370 Houstrial/Ag 371 Heater Variable Speed Drives 371 Industrial/Ag 372 Industrial/Ag 373 Industrial Pumps & Fans 374 Industrial/Ag 375 Industrial/Ag 375 Industrial Pumps & Fans 375 Industrial/Ag 376 Industrial/Ag 377 Industrial/Ag 377 Industrial/Ag 3		
327 Quiet Climate 2: Efficient Heat Pump for Portable Classrooms 328 Wodular HVAC Equipment 329 Modular HVAC Equipment 329 Modular HVAC Equipment 320 Nanotechnology Membrane-Based Dehumidifier 12 Variable Volume Dust Collection System 12 Variable Volume Dust Collection System 13 Nanotechnology Membrane-Based Dehumidifier 14 VAC, Industrial/Ag 15 Nanotechnology Membrane-Based Dehumidifier 16 WAC, Industrial/Ag 17 Nucleotic Motors 18 HVAC, Industrial/Ag 18 HVAC, Industrial/Ag 19 HVAC, Industrial/Ag 19 HVAC, Industrial/Ag 19 HVAC, Industrial/Ag 19 HVAC, Information Technology 19 HVAC, Information Technology 19 HVAC, Information Technology 19 HVAC, Industrial/Ag 19 HVAC, Information Technology 19 HVAC, Industrial/Ag 19 HVAC, Water Heating 19 Industrial/Ag 19 Industrial		
332 Variable-Speed Compressor Single-Zone Ducted Heat Pump 382 Modular HVAC Equipment 385 Nanotechnology Membrane-Based Dehumidifier 12 Variable Volume Dust Collection System 230 Energy Efficient Motors 231 Heat Pump Water Heaters Using CO2 for Commercial and Industrial Applications 132 Heat Pump Water Heaters Using CO2 for Commercial and Industrial Applications 133 Heat Pump Water Heaters Using CO2 for Commercial and Industrial Applications 134 Air-Side Economizers for Data Centers 240 Smart Thermostat 240 Smart Thermostat 240 High Temperature Water and Space Heating for Peak Demand Management 240 Heat-Of-Compression Desiccant Dryers (Replacing Existing Desiccant Compressed Air Dryers that Use Electric Resistance Heat) 250 Ultrananocrystalline Diamond (UNCD®) Mechanical Seals 48 Wireless Sensors 18 Industrial/Ag 18 Industrial/Ag 18 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 18 Industrial/Ag 19 Air Compressors with Variable Speed Drives 19 Air Judustrial/Ag 18 Industrial/Ag 18	· · · · · · · · · · · · · · · · · · ·	
382 Modular HVAC Equipment 385 Nanotechnology Membrane-Based Dehumidifier 12 Variable Volume Dust Collection System 230 Energy Efficient Motors 231 Energy Efficient Motors 232 Heat Pump Water Heaters Using CO2 for Commercial and Industrial Applications 119 Air-Side Economizers for Data Centers 110 Huxc, Information Technology 110 Air-Side Economizers for Data Centers 1110 Huxc, Residential Building Performance 1120 High Temperature Water and Space Heating for Peak Demand Management 1121 Heat-Of-Compression Desiccant Dryers (Replacing Existing Desiccant Compressed Air Dryers that Use Electric Resistance Heat) 1222 Ultrananocrystalline Diamond (UNCD®) Mechanical Seals 1233 High Temperature Water and Space Heating Industrial/Ag 1344 Wireless Sensors 1354 Industrial/Ag 1355 Electrodialysis for Wine Industry 1356 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 1357 System Optimization 1357 System Optimization 1365 Industrial/Ag 1365 Industrial/Ag 1375 System Optimization 1375 System Optimization 1400 Air Compressors with Variable Speed Drives 1400 Air Compressors With Variable Speed Drives 1507 System Optimization 1508 Air Campression System Optimization 1508 Air Campression System Optimization 1509 Agent Agent Augustrial/Ag 1500 Air Compressors With Variable Speed Drives 1500 Air Campressors With Variable Speed Drives 1500 Air Campressor With Variable Speed Drives		
385 Nanotechnology Membrane-Based DehumidifierHVAC12 Variable Volume Dust Collection SystemHVAC, Industrial/Ag230 Energy Efficient MotorsHVAC, Industrial/Ag231 Heat Pump Water Heaters Using CO2 for Commercial and Industrial ApplicationsHVAC, Industrial/Ag119 Air-Side Economizers for Data CentersHVAC, Information Technology240 Smart ThermostatHVAC, Residential Building Performance329 High Temperature Water and Space Heating for Peak Demand ManagementHVAC, Water Heating2 Heat-Of-Compression Desiccant Dryers (Replacing Existing Desiccant Compressed Air Dryers that Use Electric Resistance Heat)Industrial/Ag22 Ultrananocrystalline Diamond (UNCD*) Mechanical SealsIndustrial/Ag48 Wireless SensorsIndustrial/Ag55 Electrodialysis for Wine IndustryIndustrial/Ag69 Replacing Desiccant Compressed Air Dryers with Refrigerated DryersIndustrial/Ag90 Air Compressors with Variable Speed DrivesIndustrial/Ag91 New Variable Speed DrivesIndustrial/Ag93 Industrial Pumps & FansIndustrial/Ag107 System OptimizationIndustrial/Ag108 System OptimizationIndustrial/Ag	· · · · · · · · · · · · · · · · · · ·	
12 Variable Volume Dust Collection System 230 Energy Efficient Motors 293 Heat Pump Water Heaters Using CO2 for Commercial and Industrial Applications 119 Air-Side Economizers for Data Centers 240 Smart Thermostat 329 High Temperature Water and Space Heating for Peak Demand Management 2 Heat-Of-Compression Desiccant Dryers (Replacing Existing Desiccant Compressed Air Dryers that Use Electric Resistance Heat) 2 Ultrananocrystalline Diamond (UNCD®) Mechanical Seals 48 Wireless Sensors 65 Electrodialysis for Wine Industry 69 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 90 Air Compressors with Variable Speed Drives 91 New Variable Speed Drives 93 Industrial/Ag 94 Industrial/Ag 95 Industrial/Ag 96 Industrial/Ag 97 Industrial/Ag 98 Industrial/Ag 99 Industrial/Ag 99 Industrial/Ag 90 Industrial/Ag 91 Industrial/Ag 91 Industrial/Ag 93 Industrial/Ag 94 Industrial/Ag 95 Industrial/Ag 96 Industrial/Ag 97 Industrial/Ag 98 Industrial/Ag 99 Industrial/Ag 99 Industrial/Ag 90 Industrial/Ag 91 Industrial/Ag 91 Industrial/Ag 93 Industrial/Ag 94 Industrial/Ag 95 Industrial/Ag 96 Industrial/Ag 97 Industrial/Ag 98 Industrial/Ag 99 Industrial/Ag 99 Industrial/Ag 90 Industrial/Ag 90 Industrial/Ag		
230 Energy Efficient Motors 293 Heat Pump Water Heaters Using CO2 for Commercial and Industrial Applications 119 Air-Side Economizers for Data Centers 120 Smart Thermostat 132 High Temperature Water and Space Heating for Peak Demand Management 1332 High Temperature Water and Space Heating for Peak Demand Management 1 HVAC, Water Heating 1 HVAC, Water Heating 1 Undustrial/Ag 1 Industrial/Ag 1 Ind	 -	
HVAC, Industrial/Ag 119 Air-Side Economizers for Data Centers 40 Smart Thermostat 329 High Temperature Water and Space Heating for Peak Demand Management 40 Heat-Of-Compression Desiccant Dryers (Replacing Existing Desiccant Compressed Air Dryers that Use Electric Resistance Heat) 40 Wireless Sensors 41 Mustrial/Ag 42 Wireless Sensors 43 Pleatrodialysis for Wine Industry 44 Wireless Sensors 45 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 46 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 47 New Variable Speed Drives 48 Industrial/Ag 49 Industrial/Ag 40 Industrial/Ag 40 Industrial/Ag 41 Industrial/Ag 42 Industrial/Ag 43 Industrial/Ag 44 Industrial/Ag 45 Industrial/Ag 46 Industrial/Ag 47 Industrial/Ag 48 Industrial/Ag 49 Industrial/Ag 40 Industrial/Ag 40 Industrial/Ag 40 Industrial/Ag 41 Industrial/Ag 42 Industrial/Ag 43 Industrial/Ag 44 Industrial/Ag 45 Industrial/Ag 46 Industrial/Ag 47 Industrial/Ag 48 Industrial/Ag 49 Industrial/Ag 40 Industrial/Ag 40 Industrial/Ag 40 Industrial/Ag 40 Industrial/Ag 40 Industrial/Ag 40 Industrial/Ag 41 Industrial/Ag 42 Industrial/Ag 43 Industrial/Ag 44 Industrial/Ag 45 Industrial/Ag 46 Industrial/Ag 47 Industrial/Ag		
119 Air-Side Economizers for Data Centers 240 Smart Thermostat 329 High Temperature Water and Space Heating for Peak Demand Management 2 Heat-Of-Compression Desiccant Dryers (Replacing Existing Desiccant Compressed Air Dryers that Use Electric Resistance Heat) 22 Ultrananocrystalline Diamond (UNCD®) Mechanical Seals 48 Wireless Sensors 16 Electrodialysis for Wine Industry 65 Electrodialysis for Wine Industry 69 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 90 Air Compressors with Variable Speed Drives 91 New Variable Speed Drives 93 Industrial Pumps & Fans 100 System Optimization HVAC, Information Technology HVAC, Residential Building Performance HVAC, Water Heating HVAC, Nature Heating HVAC, Water Heating HVAC,	5,	· · · · · · · · · · · · · · · · · · ·
240 Smart Thermostat 329 High Temperature Water and Space Heating for Peak Demand Management 4 HVAC, Water Heating 5 Heat-Of-Compression Desiccant Dryers (Replacing Existing Desiccant Compressed Air Dryers that Use Electric Resistance Heat) 5 Hodustrial/Ag 5 Ultrannocrystalline Diamond (UNCD*) Mechanical Seals 5 Electrodialysis for Wine Industry 6 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 6 Replacing Desiccant Compressors with Variable Speed Drives 7 New Variable Speed Drives 7 Industrial/Ag 8 Industrial Pumps & Fans 9 Industrial Pumps & Fans 107 System Optimization 1 HVAC, Residential Building Performance HVAC, Water Heating HVAC, Water Heating HVAC, Water Heating HVAC, Residential Building Performance HVAC, Water Heating HVAC, Water Heating HVAC, Water Heating HVAC, Residential Building Performance HVAC, Water Heating HVAC, Residential Building Performance HVAC, Water Heating HVAC, Water Heating HVAC, Residential Building Performance HVAC, Water Heating HVAC, Residential Building Performance HVAC, Water Heating HVAC, Residential Building Performance HVAC, Water Heating HVAC, Water Heating HVAC, Water Heating HVAC, Residential Building Performance HVAC, Water Heating HVAC, Residential Building Performance HVAC, Water Heating HVAC, Residential Building Performance Hodustrial/Ag Industrial/Ag Industrial/Ag Industrial/Ag Industrial/Ag Industrial/Ag Industrial/Ag Industrial/Ag	•	· · · · · · · · · · · · · · · · · · ·
329 High Temperature Water and Space Heating for Peak Demand Management 2 Heat-Of-Compression Desiccant Dryers (Replacing Existing Desiccant Compressed Air Dryers that Use Electric Resistance Heat) 1 Industrial/Ag 22 Ultrannocrystalline Diamond (UNCD®) Mechanical Seals 48 Wireless Sensors 65 Electrodialysis for Wine Industry 69 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 90 Air Compressors with Variable Speed Drives 91 New Variable Speed Drives 93 Industrial Pumps & Fans 107 System Optimization HVAC, Water Heating HVAC, Water Heating Hodustrial/Ag Industrial/Ag Industrial/Ag Industrial/Ag Industrial/Ag Industrial/Ag		,
2 Heat-Of-Compression Desiccant Dryers (Replacing Existing Desiccant Compressed Air Dryers that Use Electric Resistance Heat) 22 Ultrananocrystalline Diamond (UNCD®) Mechanical Seals 48 Wireless Sensors 65 Electrodialysis for Wine Industry 69 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 90 Air Compressors with Variable Speed Drives 91 New Variable Speed Drives 93 Industrial Pumps & Fans 107 System Optimization Industrial/Ag Industrial/Ag Industrial/Ag		,
22 Ultrananocrystalline Diamond (UNCD*) Mechanical Seals 48 Wireless Sensors 65 Electrodialysis for Wine Industry 69 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 90 Air Compressors with Variable Speed Drives 91 New Variable Speed Drives 93 Industrial Pumps & Fans 107 System Optimization Industrial/Ag Industrial/Ag Industrial/Ag	329 High Temperature Water and Space Heating for Peak Demand Management	The state of the s
48 Wireless Sensors 65 Electrodialysis for Wine Industry 69 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 90 Air Compressors with Variable Speed Drives 91 New Variable Speed Drives 93 Industrial/Ag 94 Industrial Pumps & Fans 107 System Optimization 108 Industrial/Ag 109 Industrial/Ag	2 Heat-Of-Compression Desiccant Dryers (Replacing Existing Desiccant Compressed Air Dryers that Use Electric Resistance Heat)	Industrial/Ag
65 Electrodialysis for Wine Industry 69 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 90 Air Compressors with Variable Speed Drives 91 New Variable Speed Drives 93 Industrial Pumps & Fans 107 System Optimization Industrial/Ag Industrial/Ag	22 Ultrananocrystalline Diamond (UNCD®) Mechanical Seals	Industrial/Ag
69 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers 90 Air Compressors with Variable Speed Drives 91 New Variable Speed Drives 93 Industrial Pumps & Fans 107 System Optimization Industrial/Ag Industrial/Ag		, 6
90 Air Compressors with Variable Speed Drives Industrial/Ag 91 New Variable Speed Drives Industrial/Ag 93 Industrial Pumps & Fans Industrial/Ag 107 System Optimization Industrial/Ag	· · · · · · · · · · · · · · · · · · ·	
91 New Variable Speed Drives 93 Industrial Pumps & Fans 107 System Optimization Industrial/Ag	69 Replacing Desiccant Compressed Air Dryers with Refrigerated Dryers	Industrial/Ag
93 Industrial Pumps & Fans Industrial/Ag 107 System Optimization Industrial/Ag	90 Air Compressors with Variable Speed Drives	Industrial/Ag
107 System Optimization Industrial/Ag	91 New Variable Speed Drives	Industrial/Ag
	·	
	, ,	

19.2 Abuntania Finesta Of Depart Processina Septimin 19.2 Processina Finesta Office Processina (19.2 Processina Finesta) Processina Processina Finesta Processina Fin	Id Emerging Technology Description	Focus Area
1.01 Concession of Indicatatial Equipment from Compressed Air to Direct Drive 1.1 Concession of Indicatatial Equipment from Compressed Air to Direct Drive 1.2 Concession of Indicatatial Equipment from Compressed Air to Direct Drive 1.3 Concession of Indicatatial Equipment from Compressed Air to Direct Drive 1.3 Concession of Indicatatial Equipment of Concession Air Concessi		
100 Conversion of Industrial Equipment from Congressed Air Collection (Industrial Equipment Congressed Air Collection Systems Congressed Air Collection (Industrial Equipment Congressed Air Collection Systems Congressed Air Collection Systems Congressed Air Collection (Industrial Equipment Congressed Air Collection Systems Congressed Air Collect	,	, 3
12 Came-Demand Compressed Af Controls for Baghouses Industrial/Ke Indu	<u>u</u>	, ,
173 Variable Speed Die Casting Machine Industrial/Ng Ind		· ·
18.1 Name Not shope Carting Industrial/Ng		
1881 Introfoct of Pulsaton Unit with Darly Willing Vacuum System Indistrativing Indis		
207 Advanced Industrial Controls Emissivity Sensors Industrial/Ag 207 Month Sensors Industrial/Ag 207 Month Sensors Industrial/Ag 207 Month Sensors Industrial/Ag 207 Month Sensors Industrial/Ag 208 Month Sensors Industrial/Ag 209 Month Sensors Industrial/Ag 209 Month Sensors Industrial/Ag 200 Month Sensors Industrial/A	· · · · · · · · · · · · · · · · · · ·	· ·
28.6 Finalship Sensors Indistrial/Ag 21.0 Process Electronics Indistrial/Ag 21.0 Process Electronics Indistrial/Ag 21.0 Process Electronics Indistrial/Ag 28.8 Low Bergy Precision Agolitación (LEA) Irrigation Indistrial/Ag 28.8 Low Bergy Precision Agolitación (LEA) Irrigation Indistrial/Ag 28.0 Company Charles (Leave Controller) Indistrial/Ag 28.1 Add Pumps To Reduce Rick Cheretr Loads Indistrial/Ag 28.1 Add Pumps To Reduce Rick Cheretr Loads Indistrial/Ag 28.1 Alba Lighting Lighting 3.1 Lighting Lighting 3.1 Lighting State Lighting (Lond Lighting) Lighting 3.0 Modular CRI, Downlighting Lighting 3.0 Modular CRI, Downlighting Lighting 3.0 House Lighting for Lone Lighting (Lone Lighting (Lone Lighting) Lighting 3.0 House Lighting Fallows with Advanced Local Lighting (Lone Lighting) Lighting 3.0 House Lighting Fallows with Advanced Local Lighting (Lone Lighting) Lighting 4.0 Salphing Fallows with Advanced Lighting (Lone Lighting) Lighting 5.0 Shoppin Lighting Fallows with Advanced Lighting (Lone Lighting) Lighting	• • •	· ·
209 Mostrus-Sentors 210 Power Electronics 210 Power Electronics 211 Sent Controllers Sentorless 211 Sent Controllers Sentorless 212 Inspirator Sentors 213 Sent Controllers Sentorless 213 Sent Controllers Sentorless 214 Sentor Controllers Sentorless 215 Controllers		
21.5 mort Controllers - Sensories Industrial/Ag 21.8 Lown furnary Precision Application (LEPA) trigation Industrial/Ag 21.8 Low furnary Precision Application (LEPA) trigation Industrial/Ag 21.8 Low furnary Precision Application (LEPA) trigation Industrial/Ag 21.8 Low furnary Technical (Septiment of Control and Furnar Collection Systems Industrial/Ag 21.8 Low furnary Technical (Septiment of Control and Furnary Collection Systems Industrial/Ag 21.8 Low furnary Technical (Septiment of Control and Furnary Collection Systems Industrial/Ag 21.8 Mesonic Kapthing for Low spirit Visibility Low furnary Collection Lighting 21.8 Mesonic Kapthing for Low spirit Visibility Low furnary Collection Lighting 21.8 Mesonic Kapthing for Low spirit Visibility Lighting Lighting 23.8 High Color Temperature Lighting Lighting Lighting Lighting 24.8 Lighting Fortures with Advanced Local Lighting Control Lighting	·	· ·
2.1.1 Smart Controllers - Sensorosies Industrial/Ag 2.8.1 Streeper Precision Application (LEPA) Irrigation Industrial/Ag 2.8.1 Jown Ferragy Precision Application (LEPA) Irrigation Industrial/Ag 3.1.1 All Pumps To Reduce Block Heater Loads Industrial/Ag 3.1.1 All Pumps To Reduce Block Heater Loads Industrial/Ag 3.1.1 All Pumps To Reduce Block Heater Loads Industrial/Ag 3.1.2 The Stat Lighting Interpretable Block Heater Loads 3.1.2 The Stat Lighting Lighting 3.2 The Stat Lighting Lighting 3.2 The High Park Planeseant Lighting Lighting 3.3 Thing Color Temperature Lighting Lighting 3.4 High Park Planeseant Lighting Fortures with Advanced Local Lighting Controls Lighting 3.5 Hop Lander Trends and Land Lighting 4.5 Lighting Fatures with Advanced Local Lighting Controls Lighting 5. Sheed Halfales Gestal Lighting Creman Lighting 6. Sheed Halfales Gestal Lighting Creman Lighting 7. Storose Lighting Lighting 8. Sheed Halfales Gestal Lighting Creman Lighting 9. Sondose Lighting Lighting 9. Sondose Lighting	210 Power Electronics	Industrial/Ag
2.12 Temperature Senoros Industrial/Ag 2.81 Low Feorgy Fescion Application (LEPA) Irrigation Industrial/Ag 2-60 On Permand Vernitiation Controls for Dust and Fune Collection Systems Industrial/Ag 36 O'Dites of the Future" Technologies Industrial/Ag 36 O'Dites of the Future" Technologies Unphine 36 O'Dites of the Future" Technologies Unphine 26 High-Bay Fluorescent Lighting Uphine 36 High-Bay Fluorescent Lighting Uphine 37 High Color Temperature Lighting Uphine 38 High Color Temperature Lighting Uphine 38 Lighting Occupancy Sensors for Linear Fluorescent, HID, and Solid State Lighting (Idelete) Uphine 38 Lighting Councillance Commits Uphine 38 High Hallow Councillance Commits Uphine 38 Heaven Lighting Common Sensors for Linear Fluorescent, HID, and Solid State Lighting (Idelete) Uphine 38 High Hallow Councillance Commits Uphine 48 High Hallow Councillance Commits Uphine 58 Heaven Lighting Commits Uphine 65 Stolpals Uphine Uphine 65 Stolpals Lighting with Occupancy Sensors in Parking Loss and Garages Lighting	211 Smart Controllers Sensorless	
288 Iow Feregy Precision Application (LPPA) Irrigation Industrial/Ag 280 On Demand Vertilation Cornot for Data and Form Collection Systems Industrial/Ag 381 Add Pumps To Reduce Block Heeter Loads Industrial/Ag 587 O'llice of the Turule* Technologies Integrated Design 3 LED Task Lighting Lighting 25 Help Say Express Lighting 36 High Say Floorescent Lighting Lighting 36 High Color Temperature Lighting Lighting 36 High Say Floorescent Lighting Cornot Lighting 36 High Caller Temperature Lighting Lighting 45 Lighting Floores with Advanced Local Lighting Controls Lighting 45 Lighting Floores with Advanced Local Lighting Controls Lighting 45 Except Lighting with Occupancy Sensors Parking Lots and Garages Lighting 46 Stockased Wattage, High Color Temperature TS Lamps Lighting 47 Except Lighting Lighting 48 Light Street Lighting Lighting 49 Street Lighting Lighting		
181 Add Pumps To Reduce Block Heater Loads 1 LOT Jask Lighting 1 Lighting 1 Lighting 2 Lighting 2 Lighting for Low Light Visibility 2 Lighting for Low Light Visibility 2 Lighting 2 Lighting 2 Lighting 3 Lighting 3 Lighting 3 Lighting 3 Lighting 3 Lighting 3 Lighting 4 Lighting 4 Lighting 4 Lighting 4 Lighting 5 Lighting 5 Lighting Coulor Temperature Lighting 5 Lighting Coulor Temperature Lighting 6 Lighting Coulor Temperature Lighting 6 Lighting Coulor Lighting Coulor Lighting Countries 8 Lighting Coulor Lighting Countries 8 Lighting Coulor Lighting Countries 8 Meach Abalich Retail Lighting Countries 9 Lighting 1 Lighti	288 Low Energy Precision Application (LEPA) Irrigation	Industrial/Ag
56 'Office of the Future' 'Eechnologies' integrated Design Lighting Light	296 On-Demand Ventilation Controls for Dust and Fume Collection Systems	Industrial/Ag
56 'Office of the Future' 'Eechnologies' integrated Design Lighting Light	·	· ·
3 LP Jask Lighting 25 Hisphia per Lour Lightin (Ser Lour Lightin (Ser Lour Lightin) 36 Hisph Expressent Lighting 37 Hisph Ser Horressent Lighting 38 Lighting Cottor Temperature Lighting 38 Lighting Cottor Temperature Lighting 38 Lighting Cottor Remeater Lighting 38 Lighting Cottor Remeater Lighting (Lighting Controls 38 Lighting Cottor Remeater Lighting Controls 38 Lighting Cottor Remeater Lighting Controls 38 Lighting Cottor Remeater Lighting Controls 48 Metal Haidee Retail Lighting Ceramic 59 Metal Haidee Retail Lighting Ceramic 50 His Level Lighting with Cottopancy Sensors in Parking Lots and Garages 60 St. Dopley Lighting 61 Lighting 62 St. Dopley Lighting 63 Bit Level Lighting 64 Lighting 65 St. Dopley Lighting 65 Lighting 65 Lighting Lighting 66 Lighting 67 Lighting 68 Lighting 68 Lighting Lighting 68 Lighting 69 Lighting 69 Lighting 69 Lighting 69 Lighting 69 Lighting 60 Lightin		
25 Meja-Pay florescent lighting for tow light Visibility 26 Migh-Pay florescent lighting 30 Modular CFL Downlights 31 Migh Color Femerature lighting 31 High Color Capanyo Sensor for Linear Fluorescent, HID, and Solid State Lighting (delete) 41 Lighting Fixtures with Advanced Loca Lighting Controls 42 Lighting Fixtures with Advanced Loca Lighting Controls 43 Lighting Color Temperature TS Lamps 45 Lighting with Occupany Sensors in Parking Lots and Garages 46 Retal Lighting Color Temperature TS Lamps 46 Retal Lighting Color Temperature TS Lamps 47 Love Lighting with Occupany Sensors in Parking Lots and Garages 46 SSL Display Lighting 47 Love Lighting with Occupany Sensors in Parking Lots and Garages 47 Scolopic Lighting 48 Lighting Color Cannoy 49 Lighting Solar Cannoy 40 Solid State Politoria Area Lighting 49 Solid State Politoria Area Lighting 50 Solid State Politoria Area Lighting 50 Solid State Politoria Area Lighting 51 Riverscent Dimming Controls 51 Riverscent Dimming Controls 51 Riverscent Dimming Controls 52 Lighting 53 Lighting 54 Countrol Lighting 55 Countrol Lighting 56 SSL Downlight Harvesting 56 SSL Downlight For Residential Setrolit Applications 56 Countrol Lighting 57 Lighting 58 Lighting 58 Lighting 59 Lighting 50 Lighting Color Tuning 50 Lighting 51 Lighting Color Tuning 51 Lighting 51 L		
26 Hijh- Bay Fluorescent Lighting Lighting 35 Hijh Color Temperature Lighting Lighting 36 Hijb Color Temperature Lighting Lighting 36 Hijb Electron Ballast Lighting 38 Lighting Cocupancy Sensors for Linear Fluorescent, HiD, and Solid State Lighting (delete) Lighting 58 Metal Halide Retail Lighting Ceramic Lighting 58 Retured Watsey, High Color Temperature TS Lamps Lighting 63 Bi-Level Lighting with Occupancy Sensors in Parking Lots and Garages Lighting 65 St. Display Lighting Lighting 67 Scroopic Lighting Lighting 78 LOS Street Lighting Lighting 79 Solid State Outdoor Area Lighting Lighting 80 Scrope Lighting Lighting 90 Solid State Outdoor Area Lighting Lighting 81 Fluorescent Lighting Lighting 90 LIC Parking Jacksteet and if revear Case Lighting Lighting 90 LIC Davinightsoft or Residential Retroit Applications Lighting 10 Lighting L	25 Mesopic Lighting for Low Light Visibility	
35 High Color Temperature Lighting Light		
38 Highting Coupancy Sensors for Linear Fluorescent, HID, and Solid State Lighting [delete] 38 Lighting Coupancy Sensors for Linear Fluorescent, HID, and Solid State Lighting [delete] 49 Lighting Extures with Advanced Local Lighting Controls 40 Metal Halide Retail Lighting (cramic) 41 Lighting Extures with Advanced Local Lighting Controls 42 Metal Halide Retail Lighting (cramic) 43 Reduced Wattage, High Color Temperature TS Lamps 43 Ri-Level Lighting with Ocupancy Sensors in Parking Lots and Garages 45 St. Display Lighting 47 Daylighting Solar Canopy 48 LES Street Lighting 47 Loghighting Solar Canopy 48 LES Street Lighting 49 Solid State Outdoor Area Lighting 40 Solid State Outdoor Area Lighting 40 Solid State Dearward Agent Solar Canopy 41 Fluorescent Dimming Controls 40 Solid State Coupancy Controls for Lighting and HVAC 41 Lighting 42 Lighting 43 Fluorescent Dimming Controls 44 Lighting 45 Continuous Dimming with Daylight Harvesting 46 CANORAGO Coupancy Controls for Lighting and HVAC 47 Lighting 48 Lighting 49 OLED Lighting 40 Lighting 40 Lighting 40 Lighting 40 Lighting 40 Lighting 41 Lighting 41 Lighting Control 41 Lighting 42 Lighting 43 Lighting Control Uning 44 Lighting Control 45 Lighting 46 Lighting 47 Lighting 48 Lighting 48 Lighting 49 Lighting 40 Lightin		
38 Lighting Occupancy Sensors for Linear Fluorescent, HID, and Soild State Lighting (Gelete) Sulphting Eures with Advanced Local Lighting Controls Sulphting Eures with Advanced Local Lighting Controls Lighting Controls Lighting Controls Lighting 63 Bt-Level Lighting with Occupancy Sensors in Parking Lots and Garages Lighting 65 St.Dipibly Lighting Lighting Color Temperature TS Lamps Lighting 67 Scotopic Lighting Color Temperature TS Lamps Lighting 70 Scotopic Lighting Color Temperature TS Lamps Lighting 71 Daylighting Solar Canpay Lighting 72 Lighting Controls Lighting Lighting 73 Soild State Outdoor Area Lighting Lighting 74 Lighting Controls Lighting 75 Soild State Outdoor Area Lighting Lighting 76 For Lighting Controls Lighting 78 Lighting Controls Lighting 78 Lighting Controls Lighting 79 Soild State Outdoor Area Lighting Lighting 70 Lighting Controls Lighting 70 Lighting Controls Lighting 70 Lighting Lighting Lighting 70 Lighting Lighting Control Lighting 70 Lighting Lighting For Interior Spaces Lighting 71 Lighting Lighting For Interior Spaces Lighting 71 Wireless Lighting For Interior Spaces Lighting 71 Wireless Lighting Controls Lighting 71 Wireless Lighting Controls Lighting 72 Lighting Lighting Controls Lighting 73 Lighting Lighting Controls Lighting 74 Wireless Lighting Controls Lighting Lighting 75 Lighting Lighting Controls Lighting Lighting Lighting 75 Lighting Lighting Controls Lighting	35 High Color Temperature Lighting	Lighting
St. Lighting Futures with Advanced Local Lighting Cortrols Lighting Cortrol	36 HID Electronic Ballast	Lighting
S8 Metal Halide Retail Lighting Ceramic 61 Reduced Wattage, High Color Temperature Ts Lamps 62 Bit-veul Lighting with Occupancy Sensors in Parking Lots and Garages 65 SSL Display Lighting 65 SSL Display Lighting 67 Scotopic Lighting 67 Scotopic Lighting 71 Daylighting Solar Canopy 71 Daylighting Solar Canopy 72 Lighting 73 Solid State Outdoor Area Lighting 74 ELO Street Lighting 75 Solid State Outdoor Area Lighting 75 Solid State Outdoor Area Lighting 76 Solid State Pulson Lighting 78 Lighting 78 Solid State Dutdoor Area Lighting 81 Floorescent Dimminig Controls 82 FLD Refrigerated and Freezer Case Lighting 83 FLD Refrigerated and Freezer Case Lighting 84 Lighting 85 Lighting 86 Advanced Occupancy Controls for Lighting and HVAC 87 Lighting 89 FLD Downlights for Residential Retrofit Applications 80 FLD Downlights for Downlights for Residential Retrofit Applications 80 FLD Downlights for Residential Retrofit Applications 80 FLD Downlights for Residential Retrofit Applications 81 FLD Downlights for Residential Retrofit Applications 81 FLD Downlights for Residential Retrofit Applications 82 FLD Downlights for Residential Retrofit Applications 83 FLD Downlights for Residential Retrofit Applications 84 FLD Residential Retrofit Applications 85 FLD Residential Retrofit Applications 86 FLD Residential Retrofit Applications 87 FLD Residential Retrofit Applicatio	38 Lighting Occupancy Sensors for Linear Fluorescent, HID, and Solid State Lighting [delete]	
6.1 Reduced Wattage, High Color Temperature TS Lamps 6.3 Bi-Level Lighting with Occupancy Sensors in Parking Lots and Garages 6.5 SLD Disply Lighting 6.7 Scotopic Lighting 7.5 Scotopic Lighting 7.5 Lighting Solar Ganopy 7.6 LED Street Lighting 7.7 Lowlighting Solar Ganopy 7.8 LED Street Lighting 7.8 Solid State Outdoor Area Lighting 8.0 Solid State Outdoor Area Lighting 8.0 Solid State Dismined Controls 8.0 Flamps Controls 9.0 LED Lighting 9.0	45 Lighting Fixtures with Advanced Local Lighting Controls	Lighting
Fabre Flewer Lighting with Occupancy Sensors in Parking Lots and Garages Lighting Lighting Fo Scotopic Lighting Lighting Lighting For Scotopic Lighting Lighting Lighting For Scotopic Lighting Lighting Lighting For Scotopic Lighting Lighting Lighting Ligh	58 Metal Halide Retail Lighting Ceramic	Lighting
66 SL Display Lighting 67 Scotonic Lighting 78 LED Street Lighting 79 Leylighting Solar Canopy 80 Leylighting Solar Canopy 80 Lighting 80 Solid State Dutonor Area Lighting 80 Solid State Plasma Lighting 80 Cottoor Area Lighting 80 Cottoor Area Lighting 80 Cottoor Solar Sol	61 Reduced Wattage, High Color Temperature T5 Lamps	Lighting
67 Sctopic Lighting 17 Daylighting Solar Canopy 18 LED Street Lighting 18 LED Street Lighting 19 Solid State Outdoor Area Lighting 19 Solid State Plasma Lighting 18 Ikurescent Dimming Controls 18 LED Refrigerated and Freezer Case Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Advanced Occupancy Controls for Lighting and HVAC 19 Lighting 19 OLED Lighting 10 LED Domilights for Residential Retrofit Applications 10 LED Domilights for Residential Retrofit Applications 10 LED Loundlights for Residential Retrofit Applications 103 Continuous Dimming with Daylight Harvesting 104 Electron Stimulated Luminescence Lighting 105 Electron Stimulated Luminescence Lighting 106 Electron Stimulated Luminescence Lighting 107 Lighting Lighting Control 108 Bit-Level Stainwell Lighting for Interior Spaces 111 LED Linear Signage Lighting 112 Circadian Lighting (Color Tuning 113 LEDs for Commercial Signs (Other than Linear) 114 LED Linear Signage Lighting 115 LED Nightilight/Occupancy Sensor Control for Hotel Bathroom Lighting 116 Integral LED Nightilight/Occupancy Sensor Control for Hotel Bathroom Lighting 117 Wireless Lighting Control 118 Mirrored Lighting (Other States of Lighting 119 Lighting Control 118 Mirrored Lighting (Other States of Lighting 119 Lighting Control 118 Mirrored Lighting (Other States of Lighting 119 Lighting Control 111 Mirrored Lighting (Other States of Lighting 112 Lighting Control 113 Lighting Control 114 Mirrored Lighting (Other States of Lighting 115 Lighting Control 116 Lighting Control 117 Wireless Lighting Control 118 Mirrored Lighting (Other States of Lighting 119 Lighting 119 Lighting 110 Lighting 111 Lighting Control 111 Lighting Control 112 Lighting Control 113 Lighting Control 114 Lighting 115 Lighting Control 115 Lighting 116 Lighting 117 Lighting 118 Lighting 118 Lighting 119 Lighting 119 Lighting 119 Lighting 110 Lighting 110 Light	63 Bi-Level Lighting with Occupancy Sensors in Parking Lots and Garages	Lighting
21 Davighting Solar Canopy Lighting Lighting Recommendance Lighting L	66 SSL Display Lighting	Lighting
78 LED Street Lighting Lighting 79 Solid State Outdoor Area Lighting Lighting 81 Fluorescent Dimming Controls Lighting 81 Fluorescent Dimming Controls Lighting 85 CFL Downlights Lighting 89 LED Refrigerated and Freezer Case Lighting Lighting 91 Induction Lighting Lighting 95 Advanced Occupancy Controls for Lighting and HVAC Lighting 99 OLED Lighting Lighting 100 LED Downlights for Residential Retrofit Applications Lighting 102 Electron Stimulated Luminescence Lighting Lighting 103 Bi-Level Stiavwell Lighting Control Lighting 110 Directional Solid State Lighting for Interior Spaces Lighting 111 LED Linear Signage Lighting Lighting 112 Circadian Lighting Control Lighting 113 LED For Commercial Signs (Other than Linear) Lighting 114 Ito Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting Lighting 115 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting Lighting 117 Wireless Lighting Controls Lighting 118 Mirrored Light Pipes Lighting 127 -57-78 HO Wall Packs for 127 or 24/7	67 Scotopic Lighting	Lighting
79 Solid State Outdoor Area Lighting Lighting 80 Solid State Plasma Lighting Lighting 80 Solid State Plasma Lighting Lighting 86 CFL Downlights Lighting 86 LED Refigerated and Freezer Case Lighting Lighting 92 Induction Lighting Lighting 96 Advanced Occupancy Controls for Lighting and HVAC Lighting 96 Advanced Occupancy Controls for Lighting and HVAC Lighting 100 LED Downlights for Residential Retrofit Applications Lighting 102 Sontinuous Dimming with Daylight Harvesting Lighting 103 Sontinuous Dimming with Daylight Harvesting Lighting 104 Electron Stimulated Luminescence Lighting Lighting 105 Electron Stimulated Lighting for Interior Spaces Lighting 110 Directional Solid State Lighting for Interior Spaces Lighting 111 LED Linear Signage Lighting Lighting 112 Circadian Lighting Coot Truing Lighting 113 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting Lighting 115 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting Lighting 117 Mireless Lighting Controls Lighting <tr< td=""><td>71 Daylighting Solar Canopy</td><td>Lighting</td></tr<>	71 Daylighting Solar Canopy	Lighting
80 Solid State Plasma Lighting 81 Fluorescent Dimming Controls 80 FLP Downlights 80 FLP Downlights 80 FLP Downlights 89 LED Refrigerated and Freezer Case Lighting 99 Induction Lighting 95 Advanced Occupancy Controls for Lighting and HVAC 199 LIED Lighting 190 LED Lighting 190 LED Lighting 190 LED Lighting 100 LED Downlights for Residential Retrofit Applications 101 Continuous Dimming with Daylight Harvesting 102 Continuous Dimming with Daylight Harvesting 103 Continuous Dimming with Daylight Gontrol 105 Bi-Level Stairwell Lighting Control 110 Directional Solid State Lighting for Interior Spaces 111 LED Linear Signage Lighting 112 Circadian Lighting Control 113 LEDs for Commercial Signs (Other than Linear) 114 Liebs for Commercial Signs (Other than Linear) 115 Integral ED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 117 Wireless Lighting Control 118 Mirrored Light Pipes 119 Mirrored Light Pipes 119 Mirrored Light Pipes 119 Mirrored Light Pipes 110 Walfacks for 12/7 or 24/7 Outdoor Applications 110 Lighting 111 Liebs for Commercial Signs (Other than Linear) 112 Str-5/T-8 HO Walf Packs for 12/7 or 24/7 Outdoor Applications 113 Integrated Classroom Lighting System 114 Liebs to Lighting System 115 Liebs and Lighting System 116 Liebs Lighting System 117 Liebs Lighting System 118 Liebs Lighting System 119 Lighting System 119 Lighting System 119 Lighting System 110 Lighting System 110 Lighting System 111 Liebs Lighting System 112 Liebs Lighting System 113 Liebs Lighting System 113 Liebs Lighting System 114 Liebs Lighting System 115 Liebs Lighting System 115 Liebs Lighting System 116 Liebs Lighting System 117 Liebs Lighting System 118 Liebs Lighting System 119 Liebs Lighting System 110 Liebs Lighting System 110 Liebs Lighting System 110 Liebs Lighting System 111 Liebs Lighting System 111 Liebs Lighting System 1111 Liebs Lighting System 111 Liebs Lighting System 111 Liebs Li	78 LED Street Lighting	Lighting
81 Fluorescent Dimming Controls 86 CFL Domnlights 89 LED Refrigerated and Freezer Case Lighting 92 Induction Lighting 92 Induction Lighting 95 Advanced Occupancy Controls for Lighting and HVAC 96 Advanced Occupancy Controls for Lighting and HVAC 99 OLED Lighting 100 LED Downlights for Residential Retrofit Applications 101 LED Downlights for Residential Retrofit Applications 103 Continuous Dimming with Daylight Harvesting 104 Electron Stimulated Luminescence Lighting 105 Bel-Level Stairwell Lighting Control 106 Electron Stimulated Luminescence Lighting 107 Lighting 108 Bel-Level Stairwell Lighting Control 108 Lighting 109 Lighting 109 Lighting 109 Lighting 100 Licertonal Solid State Lighting for Interior Spaces 101 Lighting 102 Circadian Lighting Color Tuning 103 Lighting 104 Lighting 105 Linear Signage Lighting 105 Lighting Color Tuning 106 Linear Signage Lighting 107 Lighting Color Tuning 108 Lighting Color Tuning 109 Lighting 109 Lighting 100 Lighting 100 Lighting Controls 100 Lighting 101 Lighting Controls 102 Lighting 103 Lighting Controls 103 Lighting Controls 104 Lighting Controls 105 Lighting 107 Lighting Controls 108 Lighting Controls 109 Lighting 109 Lighting 100 Lighting 1	79 Solid State Outdoor Area Lighting	Lighting
86 CFL Downlights 89 LED Refrigerated and Freezer Case Lighting 99 Lighting 90 Advanced Occupancy Controls for Lighting and HVAC 99 OLED Lighting 100 LED Downlights for Residential Retrofit Applications 101 Downlights for Residential Retrofit Applications 102 Continuous Dimming with Daylight Harvesting 103 Continuous Dimming with Daylight Harvesting 104 Electron Stimulated Luminescence Lighting 105 Bri-Level Stairwell Lighting Control 106 Directional Solid State Lighting for Interior Spaces 110 Directional Solid State Lighting for Interior Spaces 111 LED Linear Signage Lighting 112 Circadian Lighting Color Tuning 113 Lich Linear Signage Light Ding Alley Courancy Sensor Control for Hotel Bathroom Lighting 114 Linear Signage Light Ding Milphy/Occupancy Sensor Control for Hotel Bathroom Lighting 115 Hotegral LED Nightlighy/Occupancy Sensor Control for Hotel Bathroom Lighting 116 Integral LED Nightlighy/Occupancy Sensor Control for Hotel Bathroom Lighting 117 Wireless Lighting Controls 118 Mirrored Light Pipes 119 Advanced Lens Fluorescent Fixures 119 Advanced Lens Fluorescent Fixures 119 Advanced Lens Fluorescent Fixures 110 Lighting 111 Lighting Color Tuning 112 Lighting 113 Integrated Classroom Lighting System 114 LED Lievator Lighting System 115 Lighting 115 Lighting	80 Solid State Plasma Lighting	Lighting
89 LED Refrigerated and Freezer Case Lighting 92 Induction Lighting 96 Advanced Occupancy Controls for Lighting and HVAC 99 OLED Lighting 100 LED Downlights for Residential Retrofit Applications 103 Continuous Dimming with Daylight Harvesting 104 Electron Stimulated Luminescence Lighting 105 Electron Stimulated Luminescence Lighting 106 Bi-Level Stainwell Lighting Control 107 Directional Solid State Lighting for Interior Spaces 110 Directional Solid State Lighting for Interior Spaces 111 LED Linear Signage Lighting 112 Circadian Lighting Color Tuning 113 LEDs for Commercial Signs (Other than Linear) 114 Linear Signage Lighting Color Tuning 115 Lieps Commercial Signs (Other than Linear) 116 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 117 Wireless Lighting Controls 118 Mirrored Light Pipes 119 Advanced Lens Fluorescent Fixtures 129 Advanced Lens Fluorescent Fixtures 131 Ilepstend Classroom Lighting System 133 Integrated Classroom Lighting System 134 LED Elevator Lighting 135 Lighting 136 Lighting 137 Lighting Controls 138 Lighting Controls 139 Lighting System 130 Lighting 131 Lighting Controls 131 Lighting Controls 132 Lighting 133 Lighting Controls 134 LED Lighting System 135 Lighting System 136 Lighting 137 Lighting System 137 Lighting System 138 Lighting System 139 Lighting 130 Lighting 130 Lighting 130 Lighting 131 Lighting 131 Lighting 132 Lighting 133 Lighting Controls Lighting System	81 Fluorescent Dimming Controls	Lighting
92 Induction Lighting 96 Advanced Occupancy Controls for Lighting and HVAC 99 OLED Lighting 100 LED Downlights for Residential Retrofit Applications 103 Continuous Dimming with Daylight Harvesting 104 Electron Stimulated Luminescence Lighting 105 Bit-Level Stairwell Lighting Control 106 Bit-Level Stairwell Lighting for Interior Spaces 110 Directional Solid State Lighting for Interior Spaces 111 LED Linear Signage Lighting 112 Circadian Lighting Color Tuning 113 LEDs for Commercial Signs (Other than Linear) 114 Ileus or Commercial Signs (Other than Linear) 115 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 116 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 117 Wireless Lighting Controls 118 Mirrored Light Pipes 119 Advanced Lens Fluorescent Fixtures 129 Advanced Lens Fluorescent Fixtures 131 Integrated Classroom Lighting System 132 Integrated Classroom Lighting System 133 Integrated Classroom Lighting System 134 LED Elevator Lighting 135 LED Levator Lighting 136 LED Lievator Lighting 137 Liepator Lighting System 138 Liepator Lighting System 139 Liepator Lighting System 130 Liepator Lighting 130 Liepator Lighting 131 Liepator Lighting 132 Liepator Lighting 133 Liepator Lighting 134 LED Lievator Lighting 135 Liepator Lighting 136 Liepator Lighting 137 Liepator Lighting	86 CFL Downlights	Lighting
96 Advanced Occupancy Controls for Lighting and HVAC 99 OLED Lighting 100 LED Downlights for Residential Retrofit Applications 101 ELD Downlights for Residential Retrofit Applications 103 Continuous Dimming with Daylight Harvesting 104 Electron Stimulated Luminescence Lighting 105 Bi-Level Stairwell Lighting Control 106 Bi-Level Stairwell Lighting Control 107 Directional Solid State Lighting for Interior Spaces 110 Directional Solid State Lighting for Interior Spaces 111 LED Linear Signage Lighting 112 Circadian Lighting Color Tuning 113 LEDs for Commercial Signs (Other than Linear) 114 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 115 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 116 Integral Lighting Controls 117 Wireless Lighting Controls 118 Mirrored Light Pipes 119 Advanced Lens Fluorescent Fixtures 129 Advanced Lens Fluorescent Fixtures 129 Advanced Lens Fluorescent Fixtures 131 Integrated Classroom Lighting System 132 Integrated Classroom Lighting System 133 Integrated Classroom Lighting System 134 LED Elevator Lighting 135 Lighting Lighting 136 Lighting Lighting Controls 137 Lighting Color Lighting System 138 Lighting Color Lighting Color Lighting Lighting 139 Lighting Color Li	89 LED Refrigerated and Freezer Case Lighting	Lighting
99 OLED Lighting 100 LED Downlights for Residential Retrofit Applications 103 Continuous Dimming with Daylight Harvesting 104 Electron Stimulated Luminescence Lighting 105 Bi-Level Stairwell Lighting Control 106 Directional Solid State Lighting for Interior Spaces 110 Directional Solid State Lighting for Interior Spaces 111 LED Linear Signage Lighting 112 Circadian Lighting Color Tuning 113 LEDs for Commercial Signs (Other than Linear) 114 IED Signage Lighting 115 Lighting 116 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 117 Wireless Lighting Color Tuning 118 Mirrored Light Pipes 119 Advanced Lens Fluorescent Fixtures 129 Advanced Lens Fluorescent Fixtures 130 Integrated Classroom Lighting System 141 Lighting 152 Lighting 153 Integrated Classroom Lighting System 153 Lighting System 154 Lighting 155 Lighting Lighting System 155 Lighting System 156 Lighting 157 Lighting System 158 Lighting System 159 Lighting System 159 Lighting System 150 Lighting Lighting System 150 Lighting Lighting System 150 Lighting Lighting System 150 Lighting Lighting System	92 Induction Lighting	Lighting
100 LED Downlights for Residential Retrofit Applications 103 Continuous Dimming with Daylight Harvesting 104 Electron Stimulated Luminescence Lighting 105 Bi-Level Stairwell Lighting Control 106 Bi-Level Stairwell Lighting for Interior Spaces 110 Directional Solid State Lighting for Interior Spaces 111 LED Linear Signage Lighting 112 Circadian Lighting Color Tuning 113 LEDs for Commercial Signs (Other than Linear) 114 LED signage Lighting Color Tuning 115 LED signage Lighting Color Tuning 116 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 117 Wireless Lighting Controls 118 Mirrored Light Pipes 119 Advanced Lens Fluorescent Fixtures 129 Advanced Lens Fluorescent Fixtures 130 Integrated Classroom Lighting System 141 LED Elevator Lighting 152 Lighting 153 Integrated Classroom Lighting System 154 LED Elevator Lighting	96 Advanced Occupancy Controls for Lighting and HVAC	Lighting
103 Continuous Dimming with Daylight Harvesting 104 Electron Stimulated Luminescence Lighting 108 Bi-Level Stairwell Lighting Control 108 Directional Solid State Lighting Control 110 Directional Solid State Lighting for Interior Spaces 111 LED Linear Signage Lighting 112 Circadian Lighting Color Tuning 113 LEDs for Commercial Signs (Other than Linear) 114 Ich Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 115 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 116 Integral LED Nightlight (Dighting 117 Wireless Lighting Controls 118 Mirrored Light Pipes 118 Mirrored Light Pipes 119 Advanced Lens Fluorescent Fixtures 129 Advanced Lens Fluorescent Fixtures 131 Integrated Classroom Lighting System 132 LEDs Elevator Lighting 134 LED Elevator Lighting 135 LEDs Elevator Lighting 136 Lighting 137 Lighting 138 LED Elevator Lighting 139 Lighting 140 Lighting 150 Lighting 151 Lighting 152 Lighting 153 Lighting 154 LED Elevator Lighting 155 Lighting 155 Lighting 156 Lighting 157 Lighting 158 Lighting 159 Lighting 159 Lighting 159 Lighting 150 Lighting	99 OLED Lighting	Lighting
104 Electron Stimulated Luminescence Lighting 108 Bi-Level Stairwell Lighting Control 110 Directional Solid State Lighting for Interior Spaces 111 LED Linear Signage Lighting 111 LED Linear Signage Lighting 112 Circadian Lighting Color Tuning 113 LEDs for Commercial Signs (Other than Linear) 114 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 115 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 116 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 117 Wireless Lighting Controls 118 Mirrored Light Pipes 118 Mirrored Light Pipes 119 Advanced Lens Fluorescent Fixtures 129 Advanced Lens Fluorescent Fixtures 131 Integrated Classroom Lighting System 132 Integrated Classroom Lighting System 133 Integrated Classroom Lighting System 134 LED Elevator Lighting 135 Lighting 136 Lighting 137 Lighting 138 Lighting 139 Lighting	100 LED Downlights for Residential Retrofit Applications	Lighting
108 Bi-Level Stairwell Lighting Control 110 Directional Solid State Lighting for Interior Spaces 111 LED Linear Signage Lighting 112 Circadian Lighting Color Tuning 113 LEDS for Commercial Signs (Other than Linear) 114 Ich Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 115 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 116 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 117 Wireless Lighting Controls 118 Mirrored Light Pipes 118 Mirrored Light Pipes 119 Advanced Lens Fluorescent Fixtures 129 Advanced Lens Fluorescent Fixtures 131 Integrated Classroom Lighting System 132 Integrated Classroom Lighting System 133 Integrated Classroom Lighting System 134 LED Elevator Lighting	103 Continuous Dimming with Daylight Harvesting	Lighting
110 Directional Solid State Lighting for Interior Spaces 111 LED Linear Signage Lighting 112 Circadian Lighting Color Tuning 113 LEDs for Commercial Signs (Other than Linear) 116 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 117 Wireless Lighting Controls 118 Mirrored Light Pipes 118 Mirrored Light Pipes 119 Vall Packs for 12/7 or 24/7 Outdoor Applications 129 Advanced Lens Fluorescent Fixtures 131 Integrated Classroom Lighting System 132 Itegrated Classroom Lighting System 133 Integrated Classroom Lighting System 134 LED Elevator Lighting 135 Lighting 136 Lighting 137 Lighting 138 Lighting 139 Lighting 130 Lighting 130 Lighting 130 Lighting 131 LED Elevator Lighting	104 Electron Stimulated Luminescence Lighting	Lighting
111 LED Linear Signage Lighting 112 Circadian Lighting Color Tuning 113 LEDs for Commercial Signs (Other than Linear) 116 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 117 Wireless Lighting Controls 118 Mirrored Light Pipes 118 Mirrored Light Pipes 119 Advanced Lens Fluorescent Fixtures 129 Advanced Lens Fluorescent Fixtures 131 Integrated Classroom Lighting System 132 Lighting 133 LED Elevator Lighting 134 LED Elevator Lighting 135 Lighting 136 Lighting 137 Lighting 138 Lighting System 139 Lighting 130 Lighting 130 Lighting 130 Lighting	108 Bi-Level Stairwell Lighting Control	Lighting
112 Circadian Lighting Color Tuning 113 LEDs for Commercial Signs (Other than Linear) 116 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 117 Wireless Lighting Controls 118 Mirrored Light Pipes 119 Advanced Lens Fluorescent Fixtures 129 Advanced Lens Fluorescent Fixtures 131 Integrated Classroom Lighting System 132 LED Elevator Lighting 134 LED Elevator Lighting Lighting Lighting Lighting Lighting Lighting Lighting		
113 LEDs for Commercial Signs (Other than Linear) 116 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 117 Wireless Lighting Controls 118 Mirrored Light Pipes 125 T-5/T-8 HO Wall Packs for 12/7 or 24/7 Outdoor Applications 129 Advanced Lens Fluorescent Fixtures 133 Integrated Classroom Lighting System 134 LED Elevator Lighting Lighting Lighting Lighting Lighting Lighting	111 LED Linear Signage Lighting	Lighting
116 Integral LED Nightlight/Occupancy Sensor Control for Hotel Bathroom Lighting 117 Wireless Lighting Controls 118 Mirrored Light Pipes 118 Mirrored Light Pipes 125 T-5/T-8 HO Wall Packs for 12/7 or 24/7 Outdoor Applications 129 Advanced Lens Fluorescent Fixtures 131 Integrated Classroom Lighting System 134 LED Elevator Lighting 134 LED Elevator Lighting 135 Lighting 136 Lighting 137 Lighting 138 Lighting 139 Lighting 130 Lighting		
117 Wireless Lighting Controls 118 Mirrored Light Pipes 125 T-5/T-8 HO Wall Packs for 12/7 or 24/7 Outdoor Applications 129 Advanced Lens Fluorescent Fixtures 133 Integrated Classroom Lighting System 134 LED Elevator Lighting 135 Lighting Lighting Lighting		
118 Mirrored Light Pipes Lighting 125 T-5/T-8 HO Wall Packs for 12/7 or 24/7 Outdoor Applications Lighting 129 Advanced Lens Fluorescent Fixtures Lighting 133 Integrated Classroom Lighting System Lighting Lighting Lighting		
125 T-5/T-8 HO Wall Packs for 12/7 or 24/7 Outdoor Applications Lighting 129 Advanced Lens Fluorescent Fixtures Lighting 133 Integrated Classroom Lighting System Lighting Lighting Lighting		T T
129 Advanced Lens Fluorescent FixturesLighting133 Integrated Classroom Lighting SystemLighting134 LED Elevator LightingLighting		
133 Integrated Classroom Lighting System Lighting Lighting Lighting		
134 LED Elevator Lighting Lighting		
	0 0,	
135 Lighting Control Commissioning Lighting		
	135 Lighting Control Commissioning	Lighting

Id Emerging Technology Description	Focus Area
136 Non-Daylight Sensors for Outdoor Lighting	Lighting
137 Dimmable Fluorescent Lighting	Lighting
139 Personal Lighting System	Lighting
141 Photoluminescent Exit Signs	Lighting
143 Fiber Optic Daylighting	Lighting
144 Simplified Daylight Controls	Lighting
145 Street Sign Lighting	Lighting
146 LED for Covered Parking Lots	Lighting
150 LED Under-Cabinet Lighting	Lighting
153 LED Luminaires, Residential	Lighting
167 Improved CFLs	Lighting
168 Hotel Room Lighting	Lighting
180 Intelligent Hotel Bathroom Lights	Lighting
213 LED Directional Replacement Lamps	Lighting
214 LED A-Lamp Replacement	Lighting
215 LED Testing	Lighting
218 Low Wattage Metal Halide	Lighting
219 Increased Task Lighting, Reduced Ambient Lighting	Lighting
222 Bi-Level Office Lighting with Occupancy Sensors, Auto-On 50%	Lighting
223 Cold-Cathode Lighting-Dimmable	Lighting
225 Lighting Controls for Outdoor Lighting	Lighting
234 LED T8 Lamp Replacement	Lighting
236 Cold Cathode Compact Fluorescent Lamps for general illumination	Lighting
237 Cold Cathode Fluorescent Sign Lighting	Lighting
238 Street Lighting Using T5 Fluorescent Lamps	Lighting
267 Microplasma Lighting	Lighting
273 Sulfur Plasma Lighting	Lighting
279 LED High Bay with Wireless Control	Lighting
286 Highly Efficient Incandescent Light Bulbs	Lighting
289 Hybrid Halogen-CFL Light Bulb	Lighting
290 Skylights and Windows with Aerogel Filling	Lighting
394 LED Retrofit Kits for Outdoor Lighting Applications	Lighting
395 LED Outdoor Wall Packs	Lighting
396 LED Bollards	Lighting
397 LED Outdoor Wall Wash Luminaires	Lighting
398 LED Parking Garage Lighting	Lighting
399 LED Track Lighting	Lighting
400 LED Display Case Lighting	Lighting
401 LED Linear Panels (troffers)	Lighting
402 LED Interior High Bay and Low Bay Lighting	Lighting
403 LED Canopy Lighting	Lighting
404 LED Indoor Wall Wash Luminaires	Lighting
405 LED Downlights (recessed cans) for Commercial Applications	Lighting
326 Hybrid Solar Electric/Thermal System	Renewable Energy
292 Heat Pump Water Heaters for Commercial Kitchens	Water Heating
319 Pump controls	Water Heating
389 EcoCute Carbon-Dioxide-Based Heat Pump Water Heater	Water Heating